H.264 PCI DVR Card
QSDT8PCRC
User's Manual

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REV 091609

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1 Introduction

1.1 Summarization

Thank you for choosing our digital video capture cards.

The QSDT8PCRC 8 Channel cards use software H.264 compression format, and enable a maximum of 16 channels real-time surveillance in CIF resolution. Our cards are mature and cost-effective products that should be your ideal choices. They enable synchronous audio and video compression and transmission along with their powerful compression rate and network transmission function. They are widely used in banks, intelligent communities, traffic management units, medical systems, educational systems, armed forces and so on.

This manual is suitable for SuperDVR 6.3, which supports QSDT8PCRC cards.

In this manual, you will learn how to install the hardware and driver (software), and how to setup the systems on this range of products. Please make sure your operations with the products are strictly in accordance with the manual, to maintain the stability of the digital surveillance systems.

The following are standard functions of these products:

- Schedule record mode
  Users can choose any period in a day to record and set up record modes, i.e. sensor alarm record, motion detection record, manual record, Schedule Record.
- Motion detection mode
  Motion detection areas are adjustable with a maximum 16 areas for each channel. Users can also set motion detection sensitivity for each channel. The system begins to record only when motion is detected is detected on the channel and after motion stops it will stop recording after a certain time period, which is adjustable by users.
- Sensor alarm record mode
  The system has an external alarm which enables the system to support alarm input and output.
- Recycling record mode
  Users can set recording storage sequence for HDD partitions. The recording storage will automatically switch to the next partition when the current one is full. If all the partitions are full and recycling record mode is enabled, the oldest recorded data will be covered by new data. Users can also set HDD minimum storage alarm. Then once the present storage space is less then the minimum storage and recycling record mode is not

enabled, recording will automatically stop.

- P.T.Z control function
  Supports many protocols. Users can control multiple speed domes and integrative cameras, including pan, tilt, zoom, focus and iris adjustment for P.T.Z devices. Supports preset points and auto scout.
- User management
  Different users have different rights, user names and passwords, to ensure system security.
- Multi-channel display
  Supports different multi-channel display modes, full screen display and auto dwell display.
- One PC can contain 1, 2 or 4 cards of the same model, up to a total of 32 channels
- Supports 320x240 (NTSC), 352x288 (PAL) standard resolutions.
- Image color is adjustable for each channel, including contrast, brightness, hue and saturation.
- H.264 compression format greatly reduces HDD usage.
- Powerful video playback functions, including playing back, pause, stop, fast-forward, single-frame play and image capture.
- Supports advanced search mode. Users can search by date/time, camera, record mode, and random combination of the three methods.
- Supports recorded file backup, delete by date/time, camera.
- Conveniently extend system functions through software upgrades.
- Supports multiple languages, including Chinese (Traditional), English, German, Spanish, Portuguese and other customized languages.
- CPU and storage resource saving by advanced technology
- Remote Surveillance and P.T.Z control through LAN, Intranet, and Internet.
- Supports alarm pre-record.
- Supports buzzer, email alarm out.
- Can greatly decrease fragmented files while using NTFS partition.
- User-friendly graphical user interface.

1.2 System Requirements

NOTE: If recorded disk partition's format is FAT32 and the system has run for a long time, the system will create a lot of data fragments that may result in system running slowly. It's recommended to run a disk defragmenter every 10 to 30 days. We strongly suggest that you use NTFS format for recording disk partition.

Card / PC Module	QSDT8PCRC
CPU	Intel P4 processor 2.0G minimum
HDD	200GB minimum free space
RAM	512M minimum
VIDEO CARDS	Supports MOST* AGP and PCI-E Video Cards with 64MB of RAM or more with full Direct Draw support. *Some newer PCI-E cards are not yet supported
OS (32 bit)	Win2000/WinXP/VISTA
DirectX	9.0
CPU	Intel P4 processor 2.0G minimum

Table1-1 QSDT8PCRC System Requirements

1.3 Card Specifications

- Format: PAL/NTSC.
- Resolution: 320x240 (NTSC), 352x288 (PAL).
- Maximum Frame rate per channel: 25 fps (PAL), 30 ftp (NTSC). Screen set: resolution 1024×768, color quality 16 bits or 32 bits.
- Compression code rate: 50kbps – 1.2Mbps.
- Data format: H.264.

Input Type	D type
Video Input	8 Cams
Display Rate	200 fps (PAL) , 240fps (NTSC)
Recording Rate	200 fps (PAL), 240fps (NTSC)
Compression Format	H.264
Video Resolution	352x288 (PAL) 320x240(NTSC)
Recorder Media	HDD, USB Disk, ZIP, CD-R/W via PC
Record Mode	Motion/Sensor/Schedule/Manual
Network	TCP/IP
I/O Device	8 Ch sensor Input, 1 Ch Relay Output (on board)

PTZ	Protocol Configurable, Remote Control Capability
Remote Software	Support Internet Explorer Web Browser
interface	PCI-E

2 Hardware Installation

2.1.1 QSDT8PCRC Card Hardware

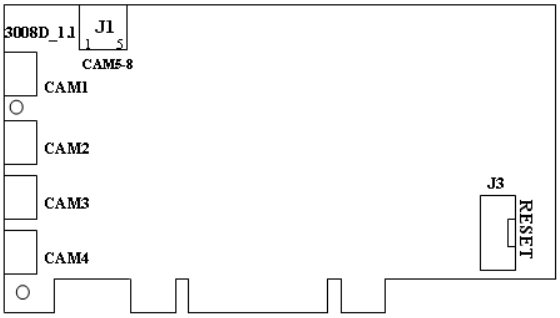
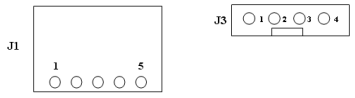


Figure2-1 TD3008 Video Capture Card



PIN1	CAMIN5
PIN2	CAMIN5
PIN3	CAMIN7
PIN4	CAMIN8
PIN5	GND

PIN1	RESET+
PIN2	RESET-
PIN3	RESET+
PIN4	RESET-

Figure2-2 Pins Definitions of QSDT8PCRC Video Capture Card

3 Hardware Installation

3.1 Video Capture Card Hardware

3.1.1 QSDT8PCRC Card Hardware

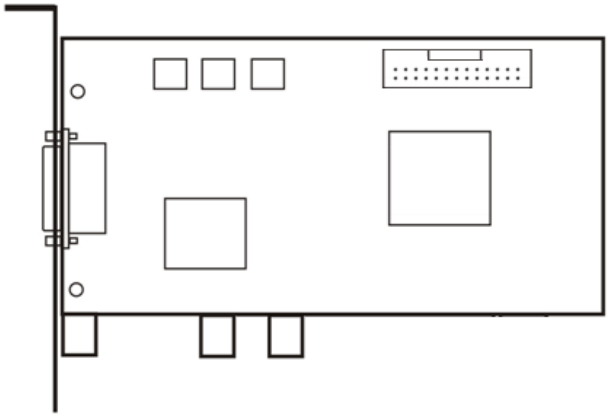
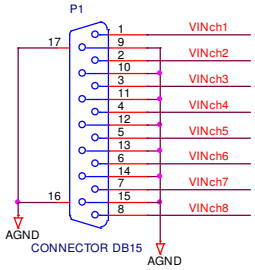


Figure3-1 QSDT8PCRC Video Capture Card



PIN1	Video1	PIN6	Video6
PIN2	Video2	PIN7	Video7
PIN3	Video3	PIN8	Video8
PIN4	Video4	Pin9-pin15	GND
PIN5	Video5		

Figure3-2 Video Connector and Pins Definition

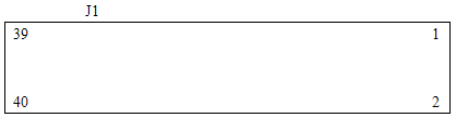


Figure3-3 QSDT8PCRC Video Capture Card Alarm Port

Pin Port	Define	Interpret	Pin Port	Define	Interpret
Pin1	Alarm_in1	Alarm Input 1	Pin21		
Pin2	Alarm_in2	Alarm Input 2	Pin22		
Pin3	Alarm_in3	Alarm Input 3	Pin23		
Pin4	Alarm_in4	Alarm Input 4	Pin24		
Pin5	Alarm_in5	Alarm Input 5	Pin25		
Pin6	Alarm_in6	Alarm Input 6	Pin26		
Pin7	Alarm_in7	Alarm Input 7	Pin27		
Pin8	Alarm_in8	Alarm Input 8	Pin28		
Pin9			Pin29		
Pin10			Pin30		
Pin11			Pin31		
Pin12			Pin32		
Pin13			Pin33		
Pin14			Pin34	Alarm_Com	Alarm COM
Pin15			Pin35	Alarm_NO	Alarm Normal Open
Pin16			Pin36	GND	Ground
Pin17			Pin37	GND	Ground
Pin18			Pin38	5V	Power Source (5V)
Pin19			Pin39	Alarm_NC	Alarm Normal Close
Pin20			Pin40		

Table3-1 Pins Definitions of TD3308 Card

3.1.2 Alarm Board Hardware

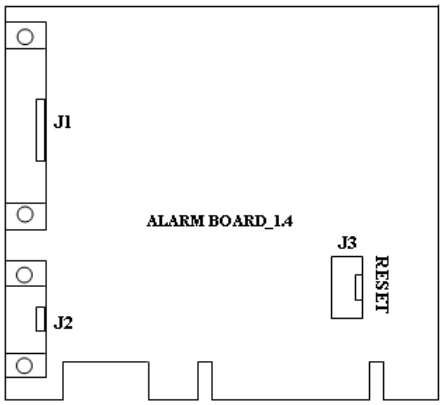
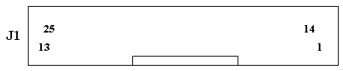


Figure3-4 Alarm Board



PIN1	AI0	PIN6	AI5	PIN11	AI10	PIN16	AI15	PIN21	ALAM_COM
PIN2	AI1	PIN7	AI6	PIN12	AI11	PIN17	A0	PIN22	ALAM_NO
PIN3	AI2	PIN8	AI7	PIN13	AI12	PIN18	A1	PIN23	ALAM_NC
PIN4	AI3	PIN9	AI8	PIN14	AI13	PIN19	A2	PIN24	GND
PIN5	AI4	PIN10	AI9	PIN15	AI14	PIN20	A3	PIN25	VCC

Figure3-5 Pins Definition of Alarm Board

Connect J2 to PC serial port and you can use alarm board on SuperDVR system.

3.1.3 Connect Audio Signal

For QSDT8PCRC, connect the audio input device to the microphone connector on the motherboard.

Before installing the Video Capture Card hardware in PCI port of the motherboard, make sure you've installed Microsoft DirectX 9.0 or later. Then turn on the computer, the system will display 'Found new hardware'.

NOTICE: Just click 'Cancel' and ignore the pop-up message.

Insert the CD that contains H.264 series capture card driver into the CD tray, and run Setup.exe program to install the driver. The default installation path is 'C:\Program Files\SuperDVR'.

NOTICE: If you get the error message "Can't find card" when running the SuperDVR software, try restarting the computer.

3.2 Install Video Capture Card Driver

STEP1 : Run Setup.exe, and the installation interface appears as shown below:

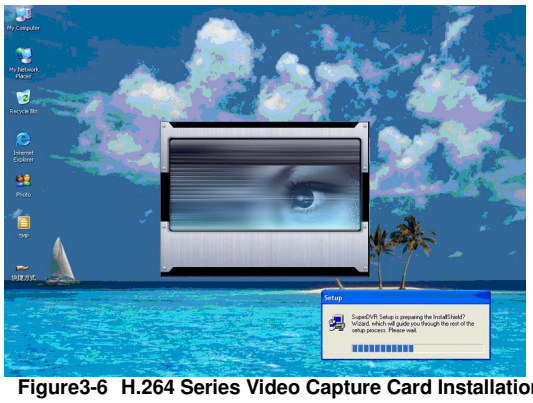


Figure3-6 H.264 Series Video Capture Card Installation Interface

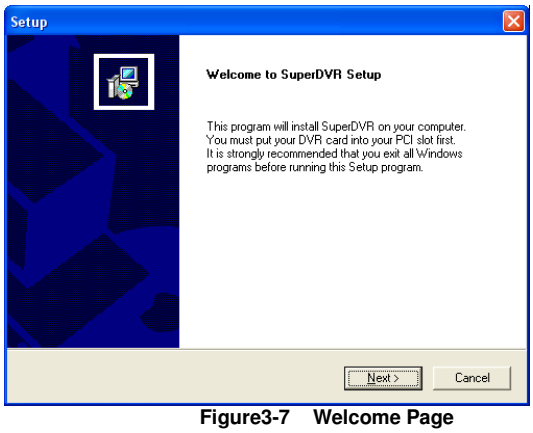

Setup
Welcome to SuperDVR Setup
This program will install SuperDVR on your computer.
You must put your DVR card into your PCI slot first.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Next >
Cancel

Figure3-7 Welcome Page

STEP2： Select video system, in the US we use NTSC format, click “next”

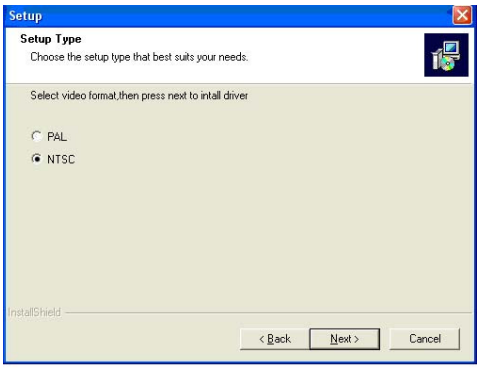


Figure3-8 Select Video Format

STEP3： Install driver first.

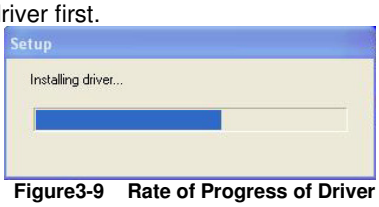


Figure3-9 Rate of Progress of Driver Installation

STEP4： After this process, it begins to install the application package SuperDVR, as shown below:

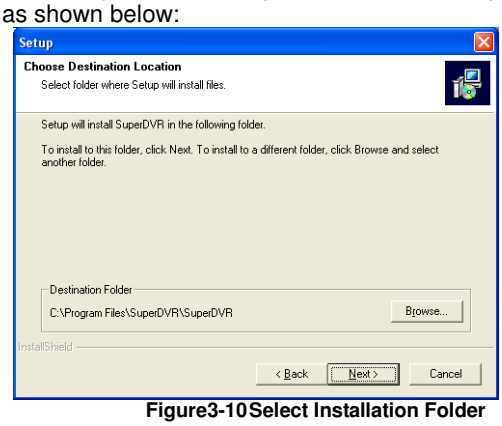

Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install SuperDVR in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\SuperDVR\SuperDVR
Browse...
InstallShield
< Back
Next >
Cancel

Figure3-10Select Installation Folder

STEP5： Select a folder or use the default SuperDVR, and click '**Next**'.

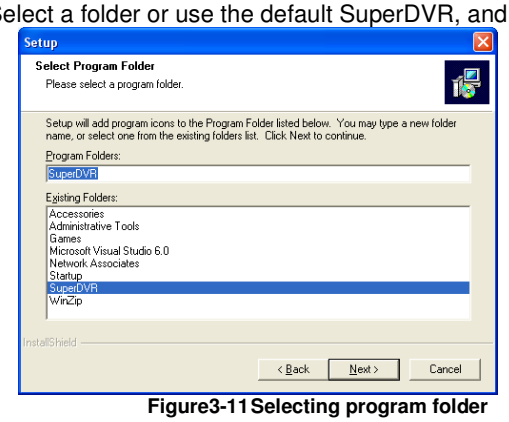


Figure3-11 Selecting program folder

STEP6： Click '**Next**'.

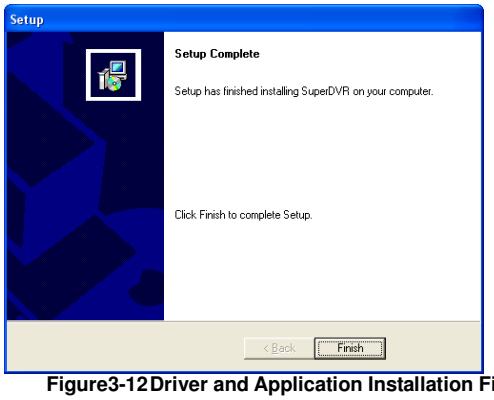


Figure3-12 Driver and Application Installation Finished

STEP7： Click '**Finish**'.

STEP8： After all the processes are finished, it will create a shortcut on the desktop. Restart the computer and launch the surveillance program.

Figure3-13 Shortcut of SuperDVR

NOTICE: When you install the driver software on Microsoft VISTA system, you need select the option shown below. Other steps of

installing the driver software on Microsoft VISTA systems are the same as on Microsoft XP systems.

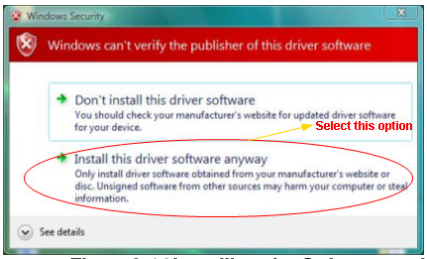

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Select this option
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

Figure3-14 Installing the Software on VISTA

In cases where users cannot run the SuperDVR program, restart the computer.

You also need to disable the new user access control function in Vista. To do so:

Click on the Start button.

Click on Control Panel

Click on User Accounts

Click on the option to “Turn user account control on or off”

Click on the check mark in the box in front of “Use user account control to help protect your computer” to remove it.

Click on OK.

4 Main Display Interface

Run the SuperDVR program and the main display appears as shown below:

Figure4-1 SuperDVR Main Display Interface

4.1 Display Control Panel

4.1.1 Display Control Panel

Figure4-2 Display Control Panel

Display control panel includes Display Mode buttons, disk free space indicator, and '**Auto Dwell**' button. Every button has its built-in indicator light. When you switch the buttons on and off, the relative indicator lights turn on and off to indicate the working status.

NOTICE: Users can tell which buttons are working by the color of the buttons.

4.1.2 Display Modes

Figure4-3 Display Modes Panel

4.1.3 Flip Pages

When the display mode is 1CH, 4CH, 9CH, 16CH, click , system will display the next window according to the display mode.

4.1.4 Auto Dwell Display Mode

If users want to see all the channels in sequence, then click to enter Auto Dwell display mode.

4.1.5 Capture

If users want to capture a picture from the screen they can click , the system will save 32 pictures to the default folder on the disk, c:\ path.

4.1.6 Urgent Record

Click , system will be record and save all the cameras.

4.2 Login

Click , and the login window appears. Input the user name and password, the default user name is 'SYSTEM' with no password, users will then access the main interface. Users can change password for SYSTEM and create new user names and passwords once they have entered the system.

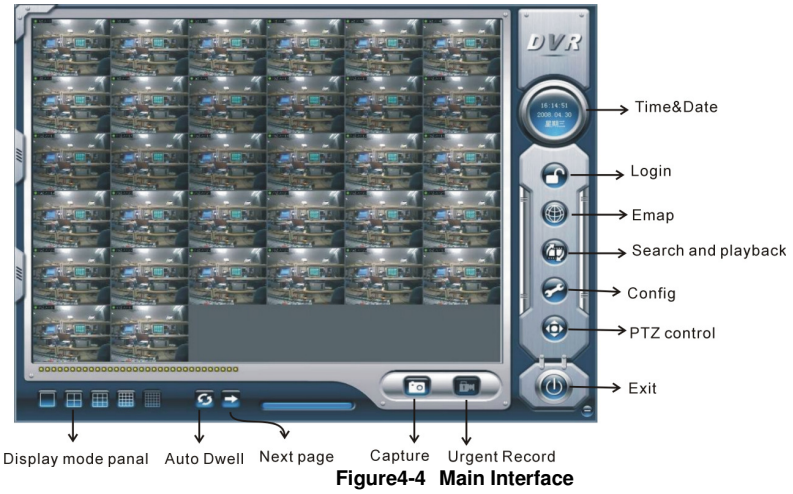


Figure4-4 Main Interface

4.3 Record

4.3.1 Record Modes

According to different record triggering methods, video capture cards offer users 4 different record modes:

- Schedule record mode (timer)
- Manual record mode
- Motion Detection record mode
- Sensor Alarm record mode

Motion Detection record mode and Sensor Alarm record mode are called Alarm Record.

If users use multiple cameras to record, every camera works separately and the recorded files are also saved separately. The parameters, i.e. camera ID, record date/time, and record mode are all saved together with the recorded file.

4.3.2 Record Setup

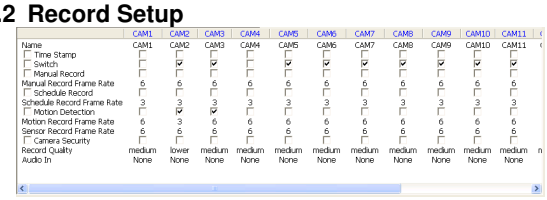


Figure4-5 Record Configuration Panel

In the '**Record Panel**' of the Basic Configuration page, users can set all the necessary parameters for recording.

1. Time Stamp

By selecting this option, the record date / time message appears in the recorded file images.

2. Switch

By selecting this option, users can turn on corresponding cameras. If there is no camera on a channel, do not select this option and you will save system resources.

3. Manual Record

By selecting this option, the images from the selected camera will be recorded and saved all the time (24 hour recording).

4. Manual Recording Frame Rate
Select the recording frame rate for manual record mode.

5. Schedule Record
This option allows you to record on a set schedule.

6. Schedule Record Frame Rate
Select Schedule Recording frame rate.

7. Motion Detection
By selecting this option, users can set the selected channels to record when motion is detected in front of the camera.

8. Motion Record Frame Rate
Select recording frame rate for Motion Detection record mode.

9. Sensor Record Frame Rate
If sensors are utilized to trigger recording, users can select recording frame rate here.

NOTICE: Users can select more than one record mode.

10. Camera Security
Users are divided into three types: Normal user, Power user and Administrator. By selecting this option, only administrators can see the selected channels.

11. Record Quality
Select recording image quality here.

12. Audio in
SuperDVR 6.0 can support one channel of microphone audio input signal on the PC motherboard and any audio inputs that are on the card if any. Users can choose one video channel for each available audio input.

4.3.3 Record Status Panel

Figure4-6 Record Status Panel & Alarm Output Status Panel

Meanings of indicator light colors in row one are shown below:

- Grey light: Normal State
- Light Green light: Manual Record State
- Dark Green light: Schedule Record State
- Yellow light: Motion Detection Record State

- Red light: Sensor Alarm Record State
- Blue light: Video Loss State

When the indicator light color turns into red in row two, it means there is an alarm output.

4.3.4 Manual Record Mode

Manual Record mode is the most commonly used recording mode. If a special event occurs, users can select this recording mode and record immediately.

NOTICE: You can select a high frame rate for a short time manual recording, while selecting a low frame rate for long time Scheduled Record.

4.3.5 Sensor Alarm Record Mode

Users can use sensors to trigger sensor alarm recording on relative channels.

At that time, the record status indicator light will turn red .

4.3.6 Motion Detection Record Mode

This will enable the system to detect image changes and begin to record by activating motion detection and motion alarm recording. For instance, somebody opens the door, and the system detects image changes from the camera and begins to record, then users can play back the recorded file and find out who opened the door. When there is no movement, the system will not record which saves system resources, and makes it easier to find recorded events. The indicator light color in the record status panel will be yellow .

NOTICE: Users need to setup parameters in three places to enable motion detection recording.

- **Select 'Motion Detection' for desired channels in 'Basic Configuration'.**
- **Configure the motion detection areas for desired channels in 'Motion Detection Configuration'.**
- **Configure working schedule for desired channels in 'Schedule Configuration'.**

4.3.7 Schedule Recording

Users can set working schedule for all of the recording modes in '**Schedule Configuration**'. The dark green light in record status panel shows the corresponding channel is in Schedule Record mode. Users can change record mode to manual record at any time, and the dark green light will change into a light green light .

Please refer to '5.4 Schedule Configuration' for details.

4.3.8 Recycling Recordings

If users enable the Recycling Record function and all the selected HDD partitions are full, the oldest recorded data will be overwritten by the latest recorded data.

Users can set recording storage sequence for HDD partitions. The recording storage will automatically jump to the next partition when the current one is full. If all the partitions are full and recycling record mode has been enabled, the new data will overwrite the oldest recorded data automatically. Users can also set a HDD minimum storage alarm. Then once the present storage space is less than the minimum storage needed, and recycling record mode has not been enabled, the recording will automatically stop.

5 System Setup

Click to enter the main setup interface.

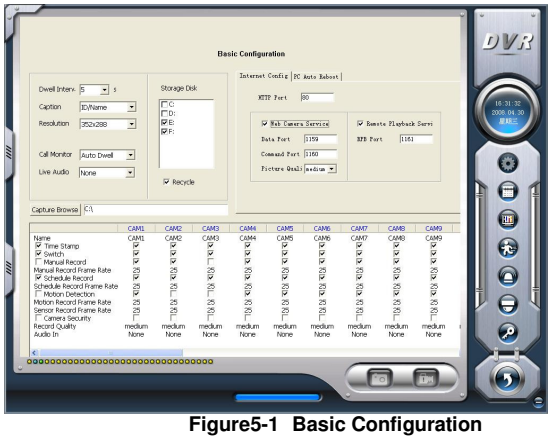


Figure5-1 Basic Configuration

The definitions of the buttons in Figure5-1 are shown below:

Basic Configuration

Video configuration

Alarm Configuration

User Configuration

Schedule configuration

Motion Detection Configuration

P.T.Z Configuration

Save and Return

5.1 Basic Configuration

Click to enter the basic configuration page where users can setup the system, or just use the defaults.

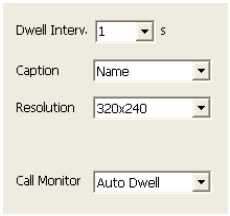


Figure5-2 Caption and General Configuration

1. Dwell Interval.

If users enable Auto Dwell function on the main interface page, users can set the dwell time, in seconds, of a screen here.

2. Caption

There are four options, None, ID, Name, and ID/Name for users to select for all the channels.

- '**None**' means no title or name;
- '**ID**' means camera numbers, i.e. 1, 2, 3 and so on;
- '**Name**' means camera names, i.e. Cam1, Cam2 and so on;
- '**ID/Name**' means both camera number and camera name, i.e. 1/Cam1, 2/Cam2 and so on.

3. Resolution

There is one resolution option, 320×244 for users to select for all the channels.

4. Call Monitor

Users can connect another monitor to the card and select the display modes here.

The following area is for your recording data storage area. Please see section 3.3.8.

Figure5-3 Record Data Storage Precept

SuperDVR shows all the available HDD partitions for users. Users can select one or more of the partitions that will be used in sequence from top to bottom. Please refer to section 3.3.8 to learn more about recycling records.

In the following area in the basic configuration page, users can input the computer user name and password in the relative boxes. Then when restarting the computer system, it will give access to the system with the user name and password that was put in the boxes.

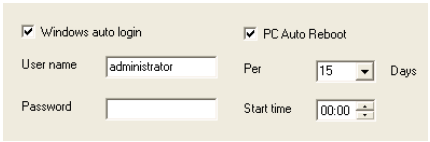


Figure5-4 Computer System Reboot Setup

Since the windows system may become unstable after a couple of days of continuous operating, it may cause SuperDVR to become unstable. You can use the software support auto-reboot option to help avoid this. Select PC Auto Reboot and set the interval by day, which will guide the system to reboot automatically according to the setup.

5. Capture browse

This item is the save path for captured files

Users can fill in the specific save path for their captured pictures.

Click to return to the main display interface.

5.2 Video Configuration

Click and enter the video configuration page as shown below. Users can change the values of corresponding items, i.e. contrast, brightness, hue, saturation, auto gain, by moving the levers on the bars. Click '**Default**', and all the values will return to the default value.

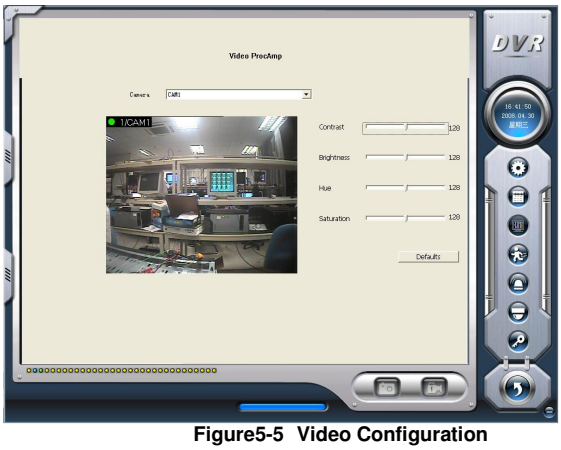


Figure5-5 Video Configuration

Definitions of the setup items:

1. Contrast
Set image color contrast.

2. Brightness
Set image brightness.

3. Hue
Set image hue.

4. Saturation
Set image Saturation

5. Default
Load defaults, i.e. reset the value of the first four items. The range of values is from 0—255.

5.3 Motion Detection Configuration

Click and enter the Motion Detection Configuration page,

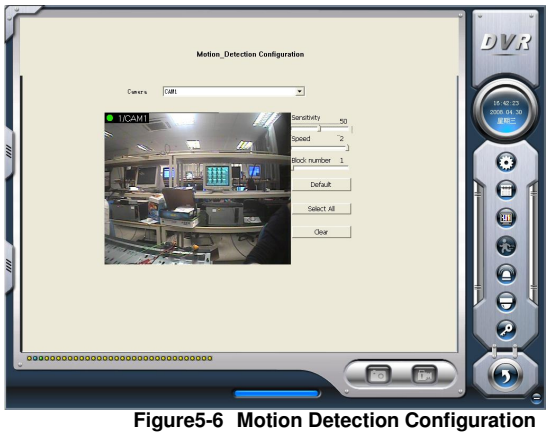


Figure5-6 Motion Detection Configuration

Definition of the setup items:

1. Sensitivity

Users can set motion detection sensitivity here.

2. Speed

Motion detection speed

3. Block Number

Set grid's number.

4. Defaults

Reset to default settings.

5. Select All

Select the entire area of the channel as detection sensitive

6. Clear

Clear all the detection areas and then you can select a customized detection area using the cursor.

5.3.2 Set Motion Detection Area

If users want to customize the detection area for a certain channel, first select the camera, then select '**Clear**' and drag the cursor in the box in the left side. You will see a green box appear which shows the motion detection area. You can select a maximum of 16 customized areas for each channel.

5.3.3 Clear Motion Detection Area

By clicking '**Clear**', you can clear all the selected areas.

5.4 Schedule Configuration

Click to enter the Schedule Configuration page as shown below:

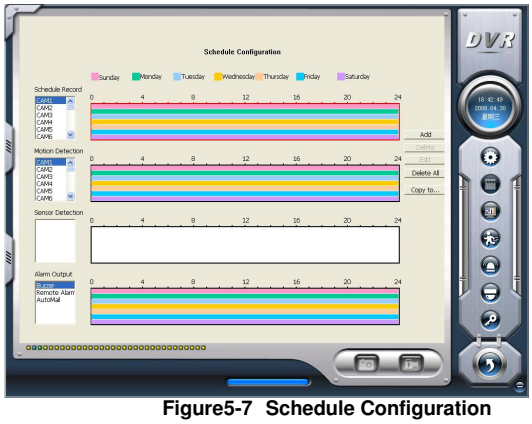


Figure5-7 Schedule Configuration

Our H.264 series cards have powerful schedule configuration options. Every channel has three kinds of recording modes, i.e. schedule record, motion detection record and sensor alarm record. You are able to set schedules from Sunday to Monday separately for all of the three recording modes. Sensor alarm recording mode has the highest priority among all recording modes. Here users can set schedules for all modes.

When users need to edit the schedule for a channel, first select the camera name in the three record mode groups, and select the color bars on the right side, then select '**Edit**' to edit schedules. Click 'Add' to add schedule for a certain channel.

NOTICE: The added schedule should not be duplicate of the former settings.

Click '**Delete**' to delete schedule. Click '**Clear All**' to delete all the schedules for a certain channel.

See the Figure 4-8 Edit Schedule to see the edit schedule window for a channel:

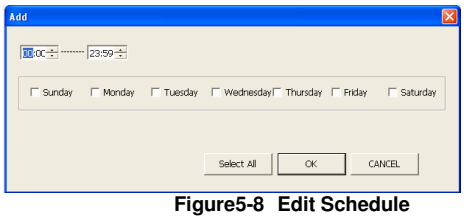


Figure5-8 Edit Schedule

5.5 Motion Detection Alarm Configuration

5.5.1 Alarm Triggering Conditions Configuration

The system can receive alarms from both local place and network.

Local Alarm Record Triggering Configuration

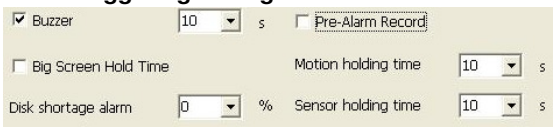


Figure5-9 Local Alarm Triggering Configuration

Explanation of options:

1. Buzzer

Users can select whether to trigger the computer buzzer if alarms have been triggered and also select how long the buzzer sounds.

2. Pre-Alarm Record

Users can select whether to enable alarm pre-record and also pre-record time.

3. Big Screen Holding Time

The corresponding channel will be full screen when an alarm is triggered. Set the full screen hold time here.

4. Motion Holding Time

How long the recording continues after motion stops.

5. Sensor Holding Time

How long the recording continues after sensor stops.

6. Disk Shortage Alarm

If the Partition free space is less than the set percent, it will stop recording or recycling, but give alarm tips according to the settings.

5.5.2 Alarm Record

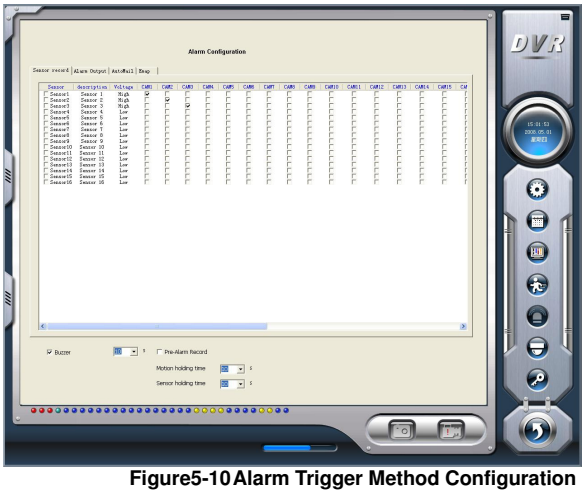


Figure5-10 Alarm Trigger Method Configuration

Every sensor can trigger multiple channels to record. For example, if users select CAM1, CAM4 and CAM5 for Sensor2, then once the sensor is activated, CAM1, CAM4 and CAM5 will begin to record. Users can also select the voltage, high and low, for alarm signals.

5.5.3 Alarm Output

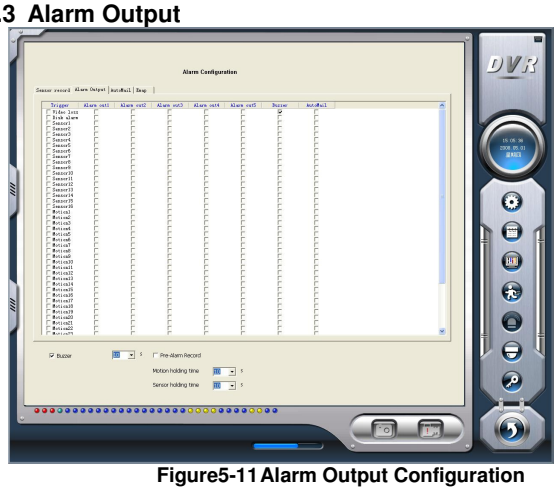


Figure5-11 Alarm Output Configuration

Press in the main interface to access the following Alarm Configuration area where users can setup a motion detection alarm, sensor alarm, and

HDD space shortage alarm.

1. Video Loss

Users can select alarm output for this option. For example, users select alarm_out1 and alarm_out3 for video loss. Then video loss of any channel will trigger alarm_out1, alarm_out3 to show a red light in the Alarm output status panel (refer to Figure4-6 for reference to this panel).

2. Disk Alarm

When HDD available space is less than the set value (see Figure5-9), it will trigger alarm.

3. Sensor

Sensor 1: If users have mounted sensors, when the sensors have been activated, it will trigger the selected output alarms.

Sensor 2 - Sensor 16: Two QSPD4116 cards have a maximum of 16 sensors.

4. Motion

Motion 1: Users can set the output of motion detection alarm by different alarms and remote alarm.

Motion 2 - Motion 16: 32CH card has maximum 16 motion alarms.

NOTICE: You should choose our additional alarm device board while using two QSPD4116 cards for alarm I/O.

5.5.4 Auto Mail Function

Users can select the above-mentioned alarms to be output by Auto Mail.

NOTICE: Before you setup this function, make sure the DVR is set to Motion Recording.

Click '**Auto Mail**' icon on the left top side of alarm configuration page to enter the following area to make Auto Mail setup, refer to Figure5-12.

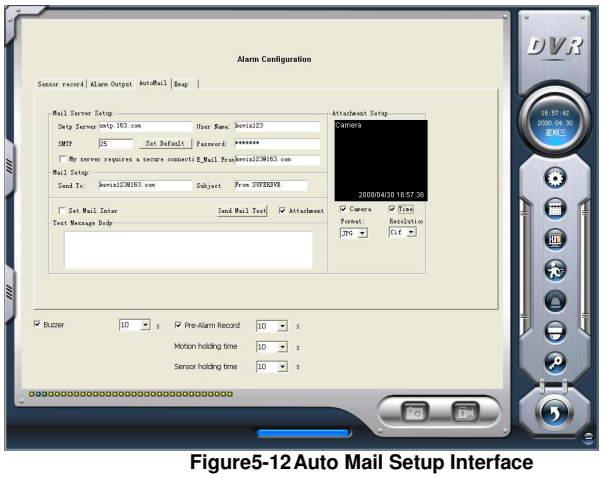


Figure5-12 Auto Mail Setup Interface

In this area, users can set receiver and sender's E-mail SMTP server and address. Note: the address of receiver and sender can be the same.

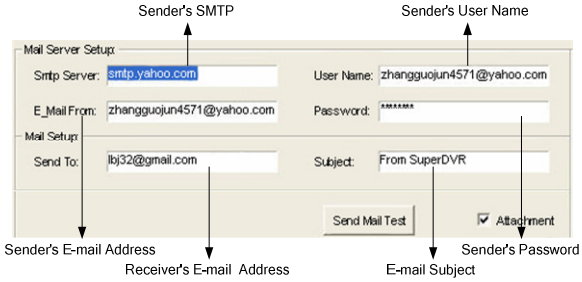


Figure5-13 Auto Mail Setup

To test the settings, click '**Send Mail Test**'. If all settings are okay, response 'Message Sent Successfully' will pop up. If some settings are wrong, a warning message will pop up.

Enable '**Attachment**', then a picture of what triggered the alarm will be sent to the selected mailbox, refer to Figure5-14.

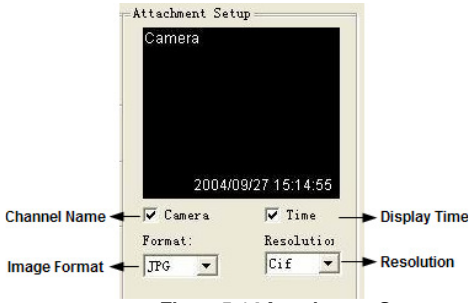


Figure5-14 Attachment Setup

NOTICE: For every alarm event, only one picture will be sent.

5.6 E-map Configuration

E-map is used to show full geographic range covered by the whole monitoring system in the form of map. An E-map features simple operation and direct display of status and is generally graded or tiered in the form of a tree diagram.

5.6.1 Edit Map

The system only supports bmp or jpg image format.

NOTICE: You need to draw the floor plan of where you want to install the cameras in a program such as Paint or Photoshop and save it in BMP format before using this feature.

Click to enter 'Emap → Emap Edit', press right key of Load Picture in the default interface of the map and select the required map file in the related folder, open the file and the map will be displayed in this interface, as shown in Figure5-15 E-Map Edit.

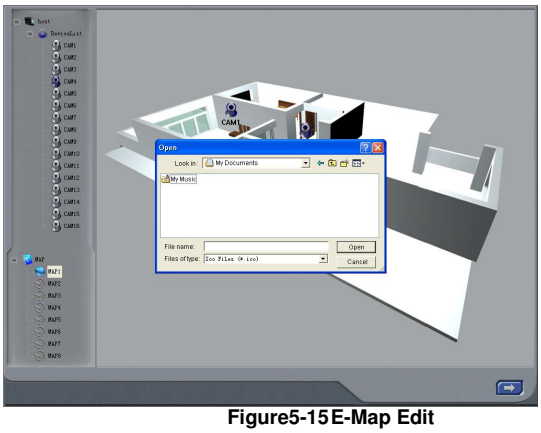


Figure5-15 E-Map Edit

Drag the icon of a camera to the corresponding position on the map, a maximum of 32 cameras can be set simultaneously, Click 'change icon' of camera by right key to change icon and click '**Delete**' to cancel camera. After editing, click right key in the map and select '**Save Map**' to save the current map.

A gray map icon can be drawn to the corresponding position in the map on the right and set it as a sub-map of the current map, or click the gray map icon on the left by right key and select '**Open**' to build a new map. You can also click the blue map icon on the left by right key, and select '**Rename**' to change the name of the map or select '**Close**' to cancel this map.

5.6.2 View Map

Click to enter E-map, where the user can view distribution of all cameras in the map, as in Figure5-16 View Cameras.

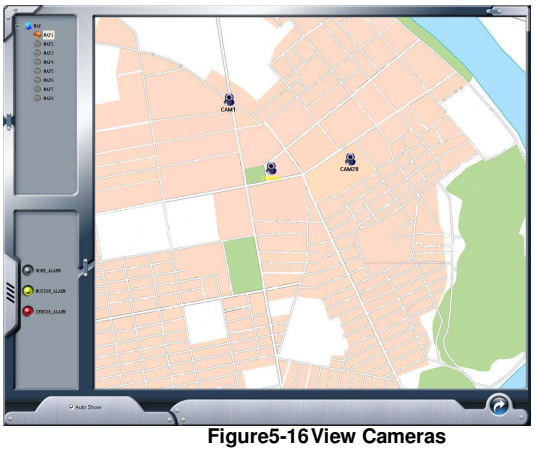


Figure5-16 View Cameras

When a channel alarm is triggered, the camera icon will flash a yellow alarm signal. Select '**Auto Show**', in case of an accidental alarm, an alarming screen will pop out automatically and you can know about the alarming position immediately. Click the camera head by right key to show the screen on the spot.

NOTICE:

1. The map tree currently supports three levels and it is invalid for any more then that.

2. For loading of a picture, when any side of length and width of the picture exceeds size of picture frame, it will be enlarged and shortened proportionally and standard size of picture frame is 833x678.

3. On this interface, click camera by right key to display the spot and the 3316 card does not support this function temporarily.

4. If 'Auto Show' is set in case that E-map pops up by automatic alarming, the E-map interface set with 'Holding Time' without any operation and alarm will be close automatically. 'Auto Show' is invalid when the E-map is opened manually.

5. The map in the E-map is the default demonstration map, and the user can invite an engineering merchant to make the practical map or draw a map by their own according to their actual needs, then scan and save it in the computer to picture.

5.7 P.T.Z Control Configuration

Click and enter PTZ Configuration:

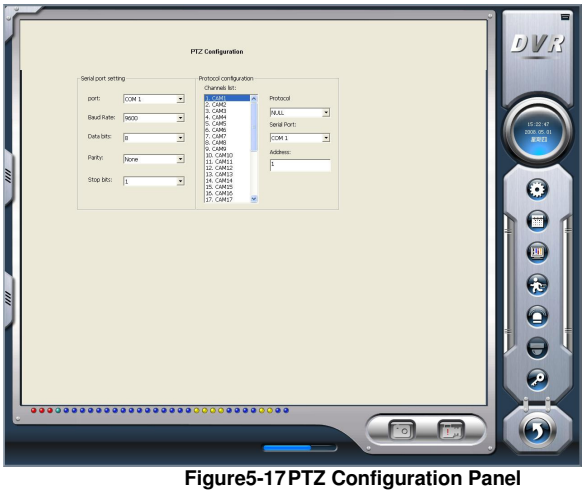


Figure5-17 PTZ Configuration Panel

5.7.1 Protocol Setup

Users can select different protocols, serial port number for P.T.Z devices.

The settings you enter here must match the setting on the PTZ camera.

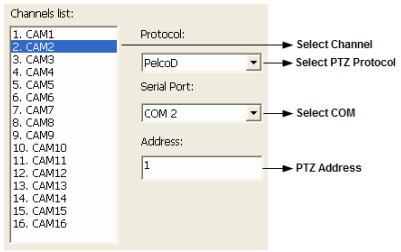


Figure5-18 P.T.Z Protocol Setup

1. Port

Users can set serial port number.

2. Protocol

Communication protocol of P.T.Z device

SuperDVR supports the following protocols:

DSCP, DH-SD, Lilian, Minking, Neon, PelcoD, PelcoP, Star, VIDO, VISCA

3. Address
Communication address of P.T.Z device (ID number)

5.7.2 Serial Ports Setup

Users should first enable the P.T.Z control function of a certain camera and select a port number in P.T.Z Protocol Setup (refer to Figure5-18), and then set corresponding parameters in the area below:

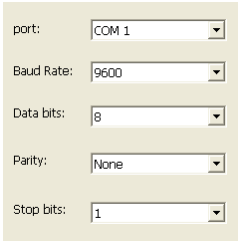


Figure5-19 P.T.Z Serial Port Setup

1. Port
Users can set port number.

2. Baud Rate
Set P.T.Z device Baud Rate to match setting on camera, default value is 9600.

3. Data Bits
Default value is 8.

4. Parity
Odd and even parity bit, default None.

5. Stop Bits
Default value is 1.

NOTICE: Users should look at the control board of the P.T.Z device and get the Baud Rate, Protocol, and Address first, then enter the same values into the SuperDVR program.

5.8 Users Configuration

Click to access the User's Configuration area:

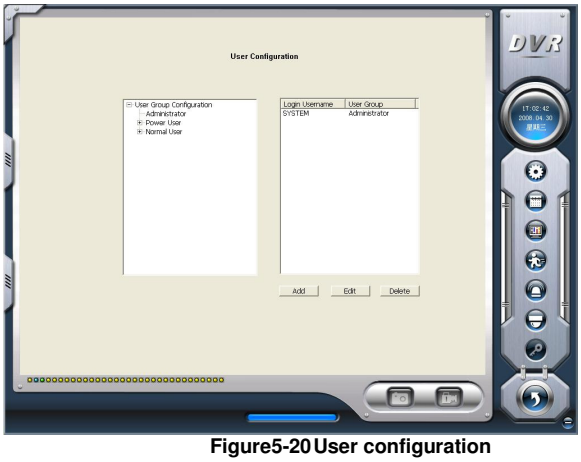


Figure5-20 User configuration

After installing the SuperDVR program, it will automatically create an administrator user with the user name SYSTEM with no password. Users can use this username to log in the system and '**Add**', '**Edit**' or '**Delete**' users' parameters.

5.8.1 Change User rights

Select a user in User Configuration area (refer to Figure5-20), and click '**Edit**' to entire Edit User area, as shown below:

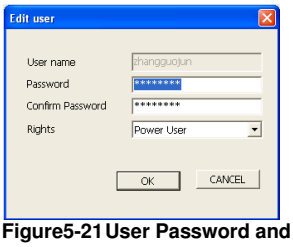
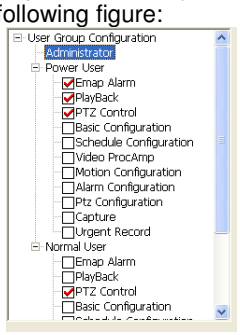


Figure5-21 User Password and Rights Edit

Users can edit user's password and rights here, but not the user name.

The system offers three kinds of rights:

- Administrator: this user has the right to change all the settings and playback. This user also has the right to assign users power user rights and normal user rights.
- Power User: This type of user is authorized by the administrator. The administrator assigns rights to power users by checking boxes in the Power User list. Please refer to the following figure:



- Normal User: Normal user's rights are also assigned by the administrator. They have the same list of available rights as Power Users. However, whether they can possess a right is be decided by the administrator. Only if the administrator assigns that right, will they have the right. For example, if *Basic Configuration* is checked, the Normal User can access these functions.

NOTICE: Administrators can change and authorize rights to Power Users and Normal Users, but they cannot change or authorize other Administrators' rights.

5.8.2 Add User

Click '**Add**' in User Configuration (refer to Figure5-20), to access the Add User area:

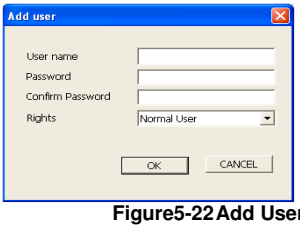


Figure5-22 Add User

Input user name, password, confirm password and select user rights, and then click '**OK**'.

5.8.3 Delete User

Select the user name in User Configuration (refer to Figure5-20), and click '**Delete**', and confirm delete. See below:

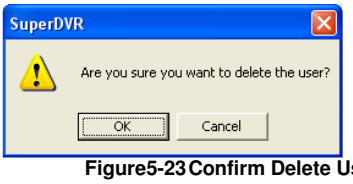


Figure5-23 Confirm Delete User

6 P.T.Z Control

Click in the SuperDVR main display interface (refer to Figure4-1) to access the P.T.Z control area:

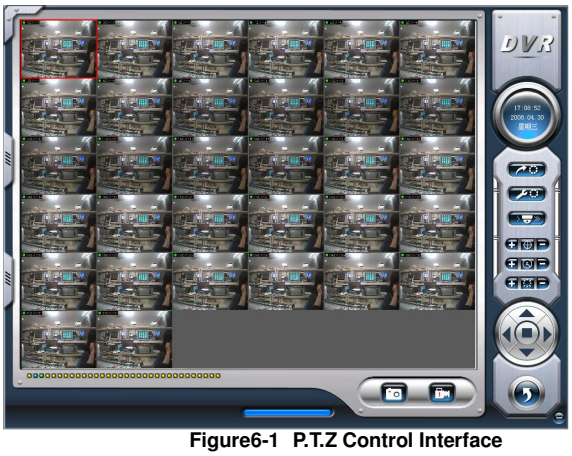


Figure6-1 P.T.Z Control Interface

Users can control P.T.Z. devices by the function buttons on the right side, shown below:

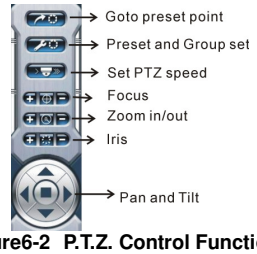


Figure6-2 P.T.Z. Control Function Buttons Panel

In the lower circle, there are five function buttons, i.e. up, down, left, right, and stop. The other buttons are Focus buttons (+ and -), Zoom buttons (+ and -), and Iris buttons (+ and -). Click and to increase and decrease the corresponding values.

When users need to use P.T.Z control, first enter P.T.Z Control Interface (refer to Figure6-1), and click the corresponding channel (users will see a red fringe around the channel), then users can begin to control the enabled P.T.Z.

camera.

NOTICE: After pressing left mouse button on any function button in P.T.Z Control Function Panel (refer to Figure6-2), PTZ camera starts moving, when user releases it, PTZ camera stops moving.

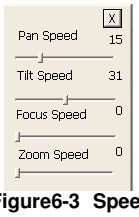


Figure6-3 Speed Adjustment

Users can select different Pan Speeds, Tilt Speeds, Focus Speeds and Zoom Speeds for P.T.Z. devices.

1. Pan Speed
Set horizontal rotating speed.

2. Tilt Speed
Set vertical rotating speed.

3. Focus Speed
Set camera focus speed.

4. Zoom Speed
Set zoom in/ zoom out speed.

Click and a pop-up window will appear; users can choose different presets or group sets.

Figure6-4 Preset and Group Select

Click to set Preset point and change Preset point name. Every Group includes multiple Preset points. If users select preset1, preset2 and preset3 for group1, preset1, preset2 and preset3 will be automatically accessed in sequence after users select group1 for auto scout.

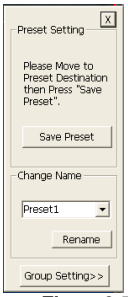


Figure6-5 Preset

Click , the following pop-up window will appear:

Dwell: users can set the dwell time of a preset here.

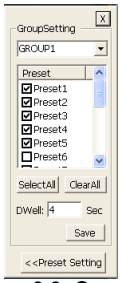


Figure6-6 Group Configuration

7 Record Search & Playing Back

Click in the SuperDVR Main Display Interface (refer to Figure4-1) and access the following areas:

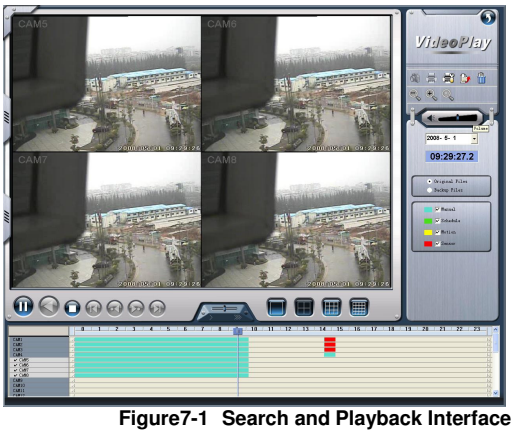


Figure7-1 Search and Playback Interface

This interface is divided into 4 parts, record search area, record playback area, record play area, and other functions area.

Press and return to the live surveillance status.

7.1 Record Search

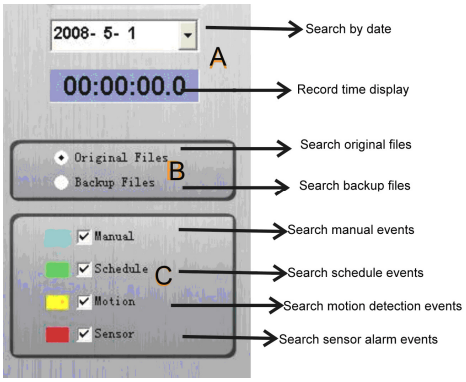


Figure7-2 Record Search Area

A, **B** and **C** marks the areas of the three search methods.

- **A**: Search by date
- **B**: Search in backup file and original file
- **C**: Search by recording mode. This is useful when user wants to look through some important events.

Users can select one or more of the above three searching methods to search for needed recorded files.

7.2 Playing Back and Control

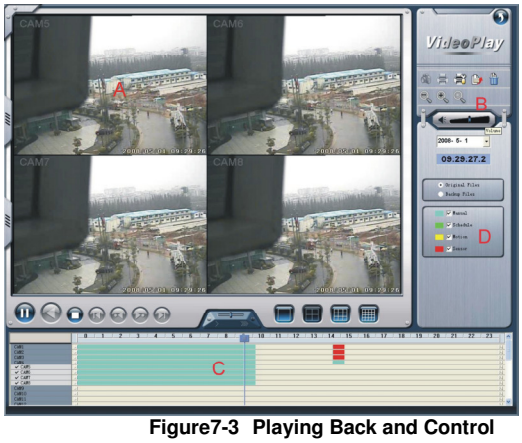


Figure7-3 Playing Back and Control

Explaination of the button functions:

- : Play / Pause
- : Stop
- : Reverse. This button is valid when playing back by single channel
- : Previous Section. This button is valid when playing back by single channel
- : Next Section. This button is valid when playing back by single channel
- : Previous Frame. This button is valid when playing back by single channel playing back in pause mode
- : Next Frame. This button is valid when playing back by single channel playing back in pause mode

Users can select suitable playing speed in the area as shown below:

Figure7-4 Playing Speed Controller

The following area shows the recorded files of different channels:

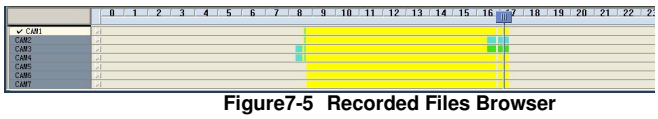


Figure7-5 Recorded Files Browser

The upper bar shows the hours in a whole day. Click the bar, and it will be magnified 10 times, therefore users can see the detailed time marks. When searching for a certain section of the file, users can draw the scrolling-bar to the area that most likely contains the needed section. If necessary, click the bar once and see the magnified time marks for precise search.

The left side shows the available channels. When a certain channel has been selected for playing back, the background color will be highlighted, or it's dark gray, and a tick sign will appear beside the channel title.

The main area at the center gives details of the recorded files. Different colors of the bar show the different types of record modes of the files. The following

are the definitions of the color bars:

- Blue: Manual Record Events
- Green: Schedule Record Events
- Yellow: Motion Detection Record Events
- Red: Sensor Alarm Record Events

Click to play selected recorded files. The system offers playback in 1 Ch, 4CH, 9 CH, and 16CH. The following is the multiple channel playback options in the control area:

Figure7-6 Multiple Channel Playback Control

The system default playiback mode is one channel. That is Camera1. If users need to change to other channels, then click and the channel configuration window will appear, as shown below:

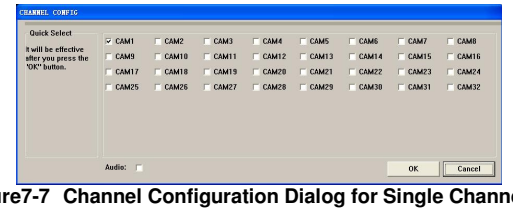

CHANNEL CONFIG
Quick Select
It will be effective after you press the "OK" button.
CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 CAM8
CAM9 CAM10 CAM11 CAM12 CAM13 CAM14 CAM15 CAM16
CAM17 CAM18 CAM19 CAM20 CAM21 CAM22 CAM23 CAM24
CAM25 CAM26 CAM27 CAM28 CAM29 CAM30 CAM31 CAM32
Audio:
OK
Cancel

Figure7-7 Channel Configuration Dialog for Single Channel Playback Mode

Users can select one channel from all the available channels for playing back.

In case user needs to playback 4 channels at the same time, then click , and the following channel configuration window will appear:

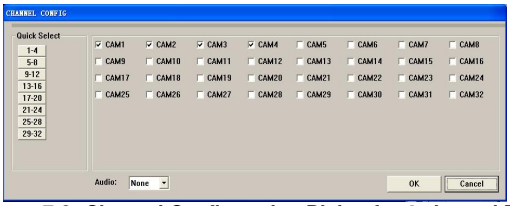


Figure7-8 Channel Configuration Dialog for 4-channel Playback Mode

Users can select any four channels from all the available channels for playing back.

The system offers quick select methods for users. For example, by selecting

'**Third 4 Channels**' , Camera9, Camera10, Camera11, and Camera12 will be quickly be selected simultaneously.

If user needs to playback 9 channels at the same time, then click , and the following channel configuration window will appear:

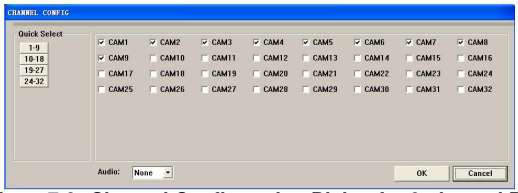


Figure7-9 Channel Configuration Dialog for 9-channel Playback Mode

Users can select any 9 channels from all the available channels for playing back. Users can also use the quick select methods in the system.

If user needs to playback 16 channels at the same time, then click , and the following channel configuration window will appear:

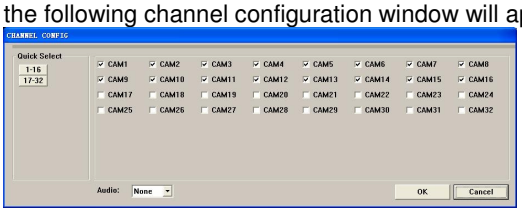


Figure7-10 Channel Configuration Dialog for 16-channel Playing Back Mode

Then click '**OK**' to play back.

TIP
Click any channel and magnify it to see the single channel. Click again to return to the former playback mode.

7.3 Other Functions

7.3.1 Recorded File Backup

Click and enter the following menu:

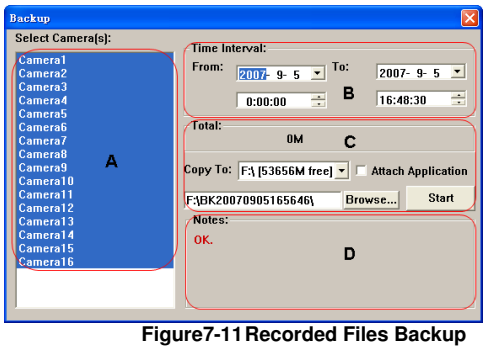


Figure7-11 Recorded Files Backup

Users can select corresponding cameras and copy the recorded files to another path in this area. This is the file backup function of the system.

The interface is divided into four areas:

- **A**: Camera Selection Area
- **B**: Time and Date Selection Area
- **C**: Operation Area
- **D**: Information Area

In A area, users can select one or more cameras.

In B area, users can set start time/date and end time/date, and then backup the files recorded by channels selected in A area by the time interval.

In C area, users can set backup path.

Click '**Start**' to backup files.

7.3.2 Delete Recorded Files

Click and the following window will appear:

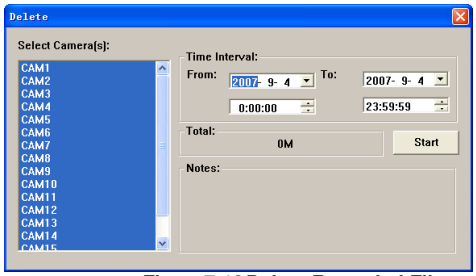


Figure7-12 Delete Recorded Files

Users first select the channel on the left side, and then select start time/date and end time/date of the recorded files, click '**Start**' to delete files.

7.3.3 Capture Pictures

The definitions of the function buttons are shown below:

: Capture picture

: Print setup

: Print captured picture

NOTICE: This **function is valid only in playback pause mode of single channel.**

When in single channel playback pause mode, the following color control panel (Figure7-13) will automatically appear, which can be used to make picture quality adjustments for the present channel, including brightness, contrast, saturation and hue, and press '**Default**' to restore the original settings.

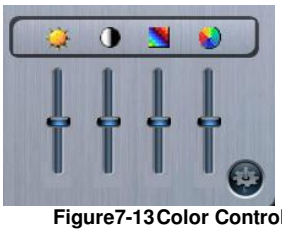


Figure7-13 Color Control Panel

When in the single channel playback pause mode, click and the following window will appear:

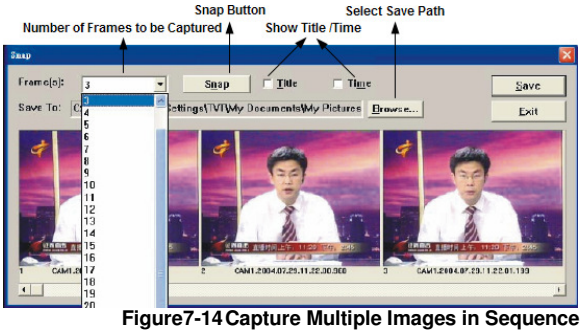


Figure7-14 Capture Multiple Images in Sequence

Select path and click '**Save**' to save the picture. User can also print the images that have been captured.

Click and display print setup as shown below:

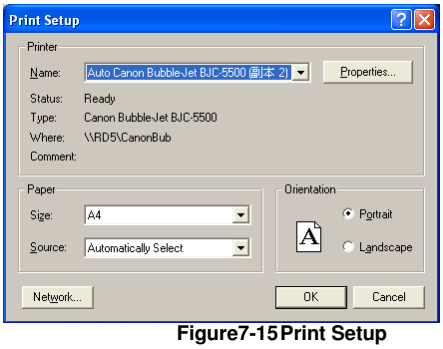


Figure7-15 Print Setup

By clicking users can display print preview as shown below:

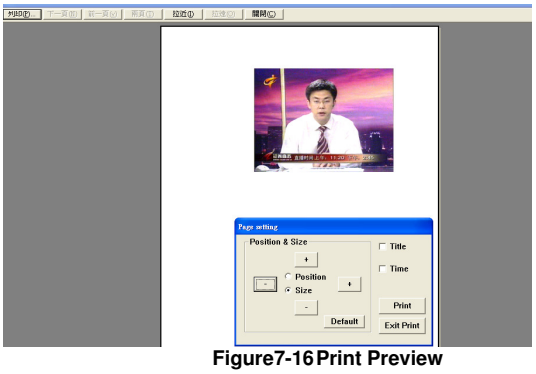


Figure7-16 Print Preview

Select and then click or to move the picture up, down, left and right. Select and then click and to zoom in and out on the image. Press to return to the original settings. Press '**Print**' in the print preview window to print the image directly.

7.3.4 Image Zoom in/out

When in single channel playback mode, the zoom control icons will appear. Select and click on the channel, it will zoom out the image. By clicking continuously, the image will be zoomed out continuously. Select and do the some operation to get the opposite effect. Click and recover the original size. Take the following three pictures for example.

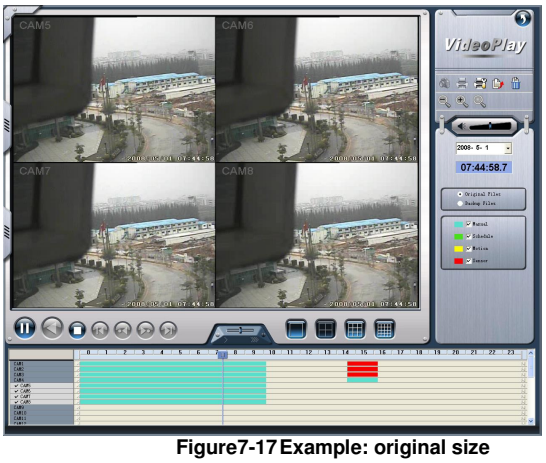


Figure7-17 Example: original size

Figure7-18 Example: zoomed out

Figure7-19 Example: zoomed in

8 Remote Surveillance & Playback

Remote Live Surveillance

Surveillance system supports Remote Surveillance through LAN, Internet, and Intranet. Simply enable the Webcam function of the system on a computer which is connected to the Internet, and the computer system will become an Internet Webcam server. On any other computer that connects to Internet, input the public IP server address in IE browser (see 7.2.1 Finding Router's Public IP Address), the end users can get high quality real time image from the server (depending on available bandwidth) and also control the P.T.Z devices.

8.1 Remote Surveillance Server Configuration

Users should first enable the Web Camera Services in Basic Configuration (refer to Fig 7.1) and set other settings as shown below:

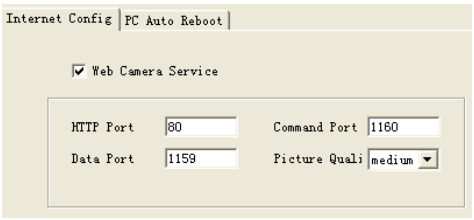


Fig 7.1 Webcam Server Configuration

HTTP Port
Web service & download service port, default value is 80.

Data Port
Data transmission port, default value is 1159.

Command Port
Control command port, default value is 1160.

Picture Quality
Default value is medium.

If your internet connect does not have enough bandwidth available you can use the Picture Quality option to send the video over the internet at a lower quality setting then you are using for recording. That way you will be able to see the images over the internet at lower quality while still recording at the

higher quality setting.

8.2 Setting up Router for Internet Access

To access the dvr card over the internet you would need to forward ports 80, 1159, and 1160 on the router that you have the PC with the DVR card installed attached to, to the IP address of the PC that has the card installed.

Notice: If you cannot use one of the HTTP ports, such as 80 because it is being used by another program, or it is being blocked by your service provider, you can use another port in the same range. If you do so then you need to forward the IP address of the router to the other port, change the port in the SuperDVR settings, and you need to add the port number after the IP address. For example, if you set the HTTP port as 82, you need to enter the IP address as 192.168.0.25:82.

User name and password here are the same as that used on the DVR. The default is admin and 123456.

To get the IP address of the PC go to the start button, then click on run, then type cmd into the box and click ok. At the blinking cursor type in ipconfig. The box will now display the IP address of the computer and the default gateway, which is the IP address of the router. See Figure 7.2

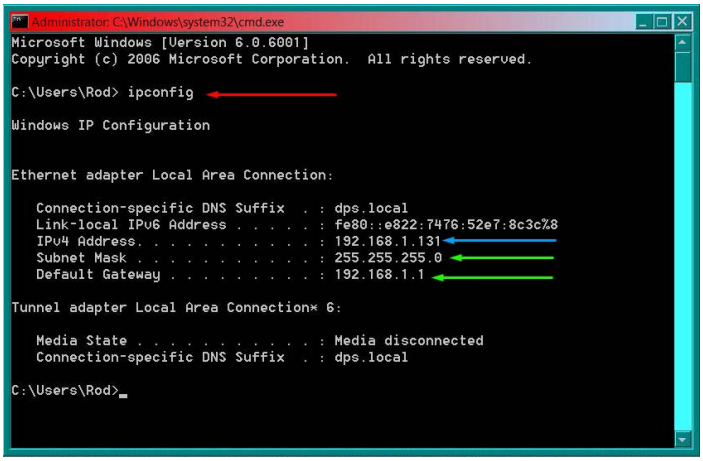

Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.
C:\Users\Rod> ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . : dps.local
Link-local IPv6 Address . . . . . : fe80::e822:7476:52e7:8c3c%8
IPv4 Address. . . . . : 192.168.1.131
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
Tunnel adapter Local Area Connection* 6:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : dps.local
C:\Users\Rod>

Fig 7.2 ipconfig window

8.2.1 Port Forwarding

To forward the ports you would need to access the router program by opening an internet browser and typing the default gateway address into the address bar and hitting enter. How you would forward the ports in the router depends on the brand and model of router you have. If you do not have the instructions for your router you can go to the website www.portforward.com which has instructions on how to do this for most popular routers. On the first page click on the orange Routers link, red square in Fig 7.3.

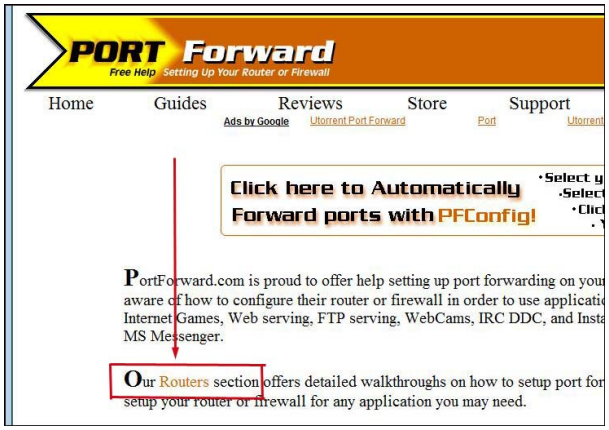

PORT Forward
Free Help Setting Up Your Router or Firewall
Home
Guides
Reviews
Store
Support
Ads by Google
Utorrent Port Forward
Port
Utorrent
Click here to Automatically
Forward ports with PFConfig!
PortForward.com is proud to offer help setting up port forwarding on you
aware of how to configure their router or firewall in order to use applicati
Internet Games, Web serving, FTP serving, WebCams, IRC DDC, and Insta
MS Messenger.
Our Routers section offers detailed walkthroughs on how to setup port for
setup your router or firewall for any application you may need.

Fig 7.3 Port Forward Router link

then select your router from the list, then on the second page click on the orange Default Guide link, blue box in Fig 7.4

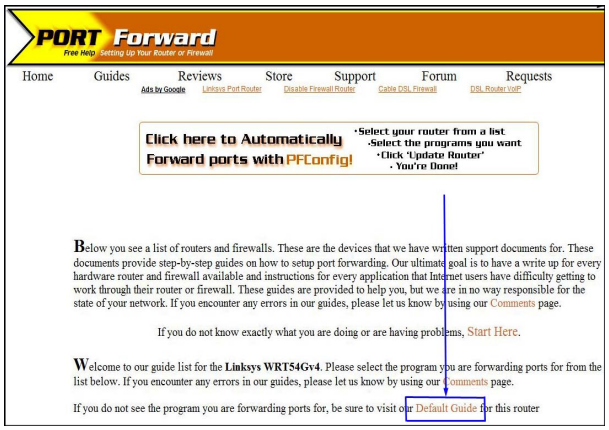

PORT Forward
Free Help Setting Up Your Router or Firewall
Home
Guides
Reviews
Store
Support
Forum
Requests
Ads by Google
Linksys Port Router
Disable Firewall Router
Cable DSL Firewall
DSL Router VoIP
Click here to Automatically Forward ports with PFConfig!
•Select your router from a list
•Select the programs you want
•Click 'Update Router'
• You're Done!
Below you see a list of routers and firewalls. These are the devices that we have written support documents for. These documents provide step-by-step guides on how to setup port forwarding. Our ultimate goal is to have a write up for every hardware router and firewall available and instructions for every application that Internet users have difficulty getting to work through their router or firewall. These guides are provided to help you, but we are in no way responsible for the state of your network. If you encounter any errors in our guides, please let us know by using our Comments page.
If you do not know exactly what you are doing or are having problems, Start Here.
Welcome to our guide list for the Linksys WRT54Gv4. Please select the program you are forwarding ports for from the list below. If you encounter any errors in our guides, please let us know by using our Comments page.
If you do not see the program you are forwarding ports for, be sure to visit our Default Guide for this router

Fig 7.4 Port Forward Default Guide link

and it will give you instructions for your router.

8.2.2 Finding Router's Public IP address

Once the ports are forwarded you need to get the internet IP address of the router since this is the address you will enter into the address bar of the router on the remote computer to access the DVR card. To get this address go to the website www.myipaddress.com on the computer where the card is installed. The box shown as Fig 7.5 will appear on the website with the router's public IP address where 76.254.183.54 is displayed. Your address will obviously be different.

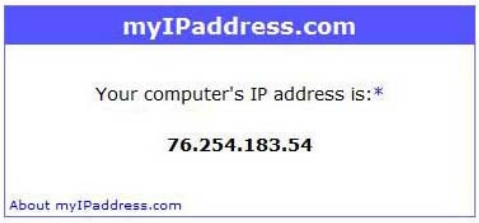


Fig 7.5 myipaddress window

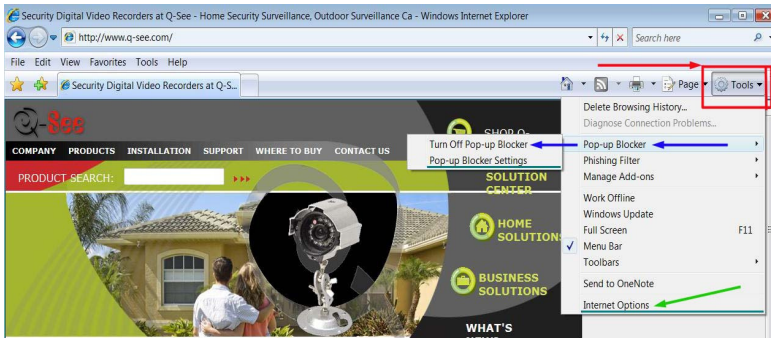
When you enter this address into the browser window on the remote computer it will access the Webcam program, just click on the remote surveillance option and it will install the program on the remote computer. Once it is installed it will create an icon on the desktop that you can click on to access the program in the future.

8.2.3 Dynamic Domain Name Services

You can access the DVR card through Internet Explorer from a static or dynamic IP address; however a dynamic address can change from time to time. How often depends on your service provider. When it changes you need to go to back to a website such as www.myipaddress.com from the computer with the DVR card to find out what the new IP address is. There are two solutions to this problem. One would be to get a static IP address from your service provider so that you do not have to be concerned with the address changing. Another solution would to use a dynamic domain name service to get a domain name that can be linked to your dynamic IP address. You can register on our support site: myq-see.com and create a domain name, then download the client software program and install it on the computer. This software will monitor your IP address, and when it changes it will link the domain name you created to whatever the current dynamic IP address is, so that you do not have to be concerned with the address changing and preventing you from accessing the DVR card. This service is provided free of charge to our customers.

8.2.4 To Access through Internet Explorer

Once you have setup the network settings on the DVR to match the settings of your router and forwarded the ports needed by the DVR (for remote access over the internet), you need to modify your browser controls. You need to allow Pop-ups. To do so go to the Internet Explorer tool bar and select the "tools" option (RED box in Fig 7.6), then select the "Pop up Blocker" option and select "Turn Off Pop-up Blocker" (BLUE arrows in Fig 7.6). You will also need to enable Active X controls. To do so go to the Internet Explorer tool bar and select the "tools" option, then "Internet Options"(GREEN arrow in Fig 7.6), In the windows that opens (Fig 7.7) Go to "Security" (RED box in Fig 7.7), then click the "Custom Level" button (GREEN box in Fig 7.7), then click on OK (BLUE arrow in Fig 7.7). This will open the page shown in Fig 7.8. On this page scroll down to the ActiveX Controls and Plug Ins and make sure they are all set to either prompt (RED arrows) or enabled (BLUE arrows).



7.6 Internet Explorer Tool Bar

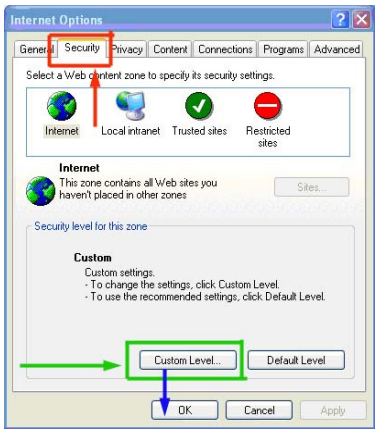


Fig 7.7 Internet Options

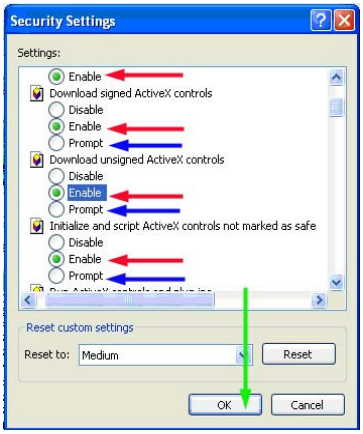


Fig 7.8 Security Settings

NOTICE: If you still cannot connect after enabling ActiveX, on many systems you many have another option. You can go into internet options in Internet Explorer, enter the IP address you use to access the DVR as a trusted site, then go to the default level button and set move the bar down to the low setting, click apply and ok. Do not select the option to enable protected mode or require server verification. On Vista you may get an "unknown publisher or publisher can't be verified" error message. If you get one of these messages you need to go to the advanced tab, down to the security settings, put checkmarks in the options to allow active content to run on my computer, and allow software to run or install even if the signature is invalid, and remove the check for the option to

check for signatures on downloaded programs.

To connect to the DVR from the remote computer you would then open an Internet Explorer browser window and enter the internet IP of your router that you got by going to www.myipaddress.com.

8.2.5 Unknown Publisher or Unsigned Program Error

If you get a error message that says the program cannot load because the publisher is unknown or the program is unsigned, go to Internet Explorer, Tools, Internet Options (refer to Fig 7.9), then go to the "Advanced" tab (RED box in Fig 7.9), this will open the window in Fig 7.10, scroll down to "Security", and select the options to "Allow software to run or install even if the signature is invalid", and "Allow Active Content to Run Files on My Computer" (RED box in Fig 7.10).

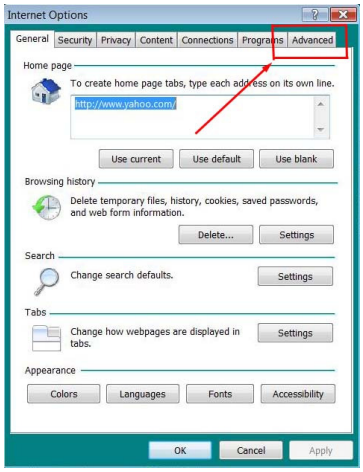


Fig 7.9 Advanced Options

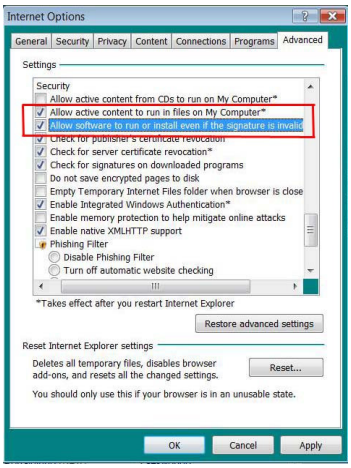

Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Security
Allow active content from CDs to run on My Computer*
Allow active content to run in files on My Computer*
Allow software to run or install even if the signature is invalid
Check for server certificate revocation*
Check for signatures on downloaded programs
Do not save encrypted pages to disk
Empty Temporary Internet Files folder when browser is close
Enable Integrated Windows Authentication*
Enable memory protection to help mitigate online attacks
Enable native XMLHTTP support
Phishing Filter
Disable Phishing Filter
Turn off automatic website checking
*Takes effect after you restart Internet Explorer
Restore advanced settings
Reset Internet Explorer settings
Deletes all temporary files, disables browser add-ons, and resets all the changed settings.
Reset...
You should only use this if your browser is in an unusable state.
OK
Cancel
Apply

Fig 7.10 Invalid Signature

8.3 Accessing IE client

After enabling network server on the unit, and enabling ActiveX, users can view the video from the cameras over the LAN or Internet through Internet Explorer. Please refer to Fig7.1 IE client Server Configuration. This unit only supports Internet Explorer browser, no other browsers are supported. It also supports Win2000, WinXP and Vista.

Input the IP address of the computer with the card if accessing from LAN, or the public IP address of the router if accessing from the internet, into the Internet Explorer window to reach the window that prompts you to install the ActiveX control, then the following window appears:

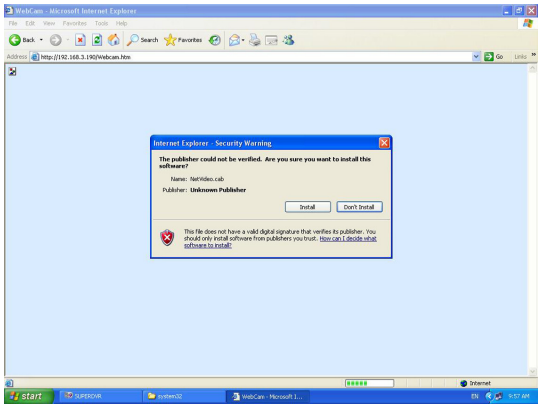

Internet Explorer - Security Warning
The publisher could not be verified. Are you sure you want to install this software?
Name: NetVideo.cab
Publisher: Unknown Publisher
Install
Don't Install
This file does not have a valid digital signature that verifies its publisher. You should only install software from publishers you trust. How can I decide what software to install?

Fig 7.11 Webcam install interface

Click install button, then the Webcam main interface will appear as shown below:

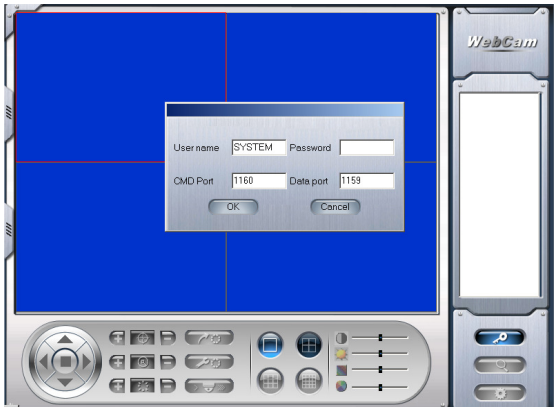


Fig 7.12 Webcam Login interface

NOTICE: The default User name is SYSTEM with no password. Users can set user name and password on the program. Click OK and then enter into the Webcam Main interface.

Fig 7.13 Webcam Main interface

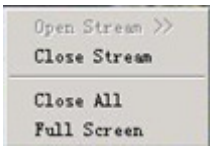
Feature Explanations:

Icon	Description
	Controls for PTZ Cameras: Move Up. Move Down. Move Left rotate left. Move Right. Stop Rotating.
	PTZ 'Focus' buttons. Click button 'Focus' farther away. Click button 'Focus' closer
	PTZ 'Zoom' buttons. Click button Move camera in closer. Click button Move camera further away.
	PTZ 'Iris' button. Click button Increase the amount of light. Click button Decrease the amount of light.
	Go to a Preset Point
	Set a Preset Point
	Speed dome. Adjust PTZ speed. It sets the rotational speed of the PTZ

	Single channel with full screen display
	Four channel mode - four cameras displayed
	Contrast adjustment
	Brightness adjustment
	Hue adjustment
	Saturation adjustment
	Log in/ Log out
	Record playback
	System Configuration
	Enable the Lan that is Master stream, has higher frame rate and needs higher network bandwidth; Internet that is sub stream, has low frame rate and requires lower network bandwidth. Users can select the stream according to their bandwidth.

Table 7-1 the function of the main interface buttons

Click the right mouse in the main interface a sub menu will appear:



Open Stream: Click this item, selected channel will open

Close Stream: Click this item, selected channel will close

Close All: Click this item, all channels will close

Full Screen: Select this item, the picture will display full screen. Double click or click right mouse to return to the previous interface.

8.4 Remote playback

8.4.1 Record playback and control

Click button on the Webcam main interface, the remote playback interface will appear:

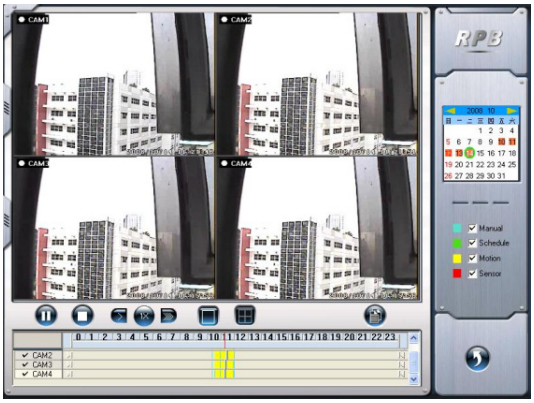


Fig 7.14 Remote playback

Explaination of the button functions:

: Play/ Pause

: Stop

: Adjust the speed of playing back. Users can ajust play speed as needed.

: Playing back backup. Users can click Backup to enter into the Remote Backup interface:

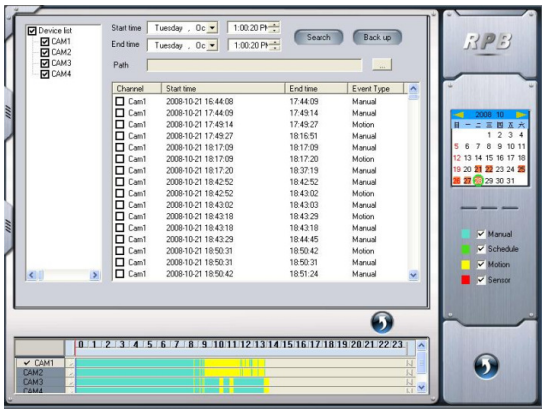


Fig 7.15 Remote backup

STEP1： Select the date, channel, then click Search button. It will list all files recorded for the day.

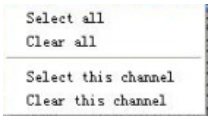
STEP2： Click Browse button, set the saving path.

STEP3： Select files in the search area. Users can hold shift button on the keyboard and select multi files with mouse simultaneously.

STEP4： Click Backup button to do remote backup.

Notice: the backup files are AVI format. Users can play with most third players directly.

Click the right mouse in the search area, a sub menu will appear:



If users select all channels, click Select all, then all check boxs before channels will be selected. Users can click Clear all to clear all selected channels; if users select a certain channel, click Select this channel, then just this channel be selected. Users can click Clear this channel to clear that selected channel.

: Return to previous main interface

: Multiple Channels playback control

The system default playback modes are single and four channel. If users need to change to other channels, then click button, the following

channel configuration window will appear:

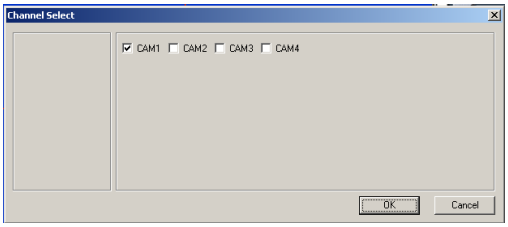


Fig 7.16 Channel configuration window for 1 channel playback mode

Users can select one channel from all the available channels for playing back.

Click , users can playback in four channel mode. Four channel configuration window will display as shown below:

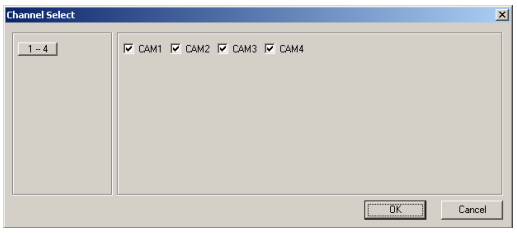


Fig7.17 Channel configuration window for 4 channel playback mode

Users can select any four channels from all the available channels for playing back.

The following area shows the recorded files of different channels:

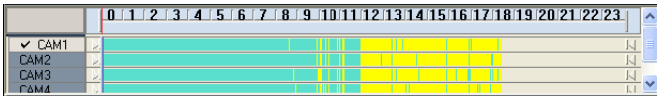
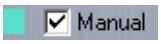


Fig 7.18 Data Preview

Data preview shows the recorded data for different channels during corresponding time, the left side shows the available channels. When a certain channel has been selected for playing back, the background color will be highlighted, or its dark gray and a tick sign will appear beside the channel title.

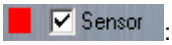
The data preview area at the center gives details of the recorded files. Different colors of the bar show different types of records. The following are the definitions of the color bar:



: Manual Record Events

: Schedule Record Events

: Motion Detection Record Events



: Sensor Alarm Record Events

The ruler on top of the bar shows the hours of the day. Right-click the ruler, it will be magnified 10 times allowing users to see the time marks more clearly.

STEP1 When users want to search for a certain section of a record, draw the bar to the desired position. If necessary, right-click the bar to see the magnified time marks for precise search.

STEP2 Users can click button to play the selected record, Then return to live display mode after finishing remote playback, it will display a word 'Connecting…'on the screen. And users may click "Large Picture" or "Quad Picture" button to refresh the screen to get live picture.

8.5 System setup

Click and enter into the main setup interface.

Fig 7.19 Basic Configuration

Notice: When multiple clients access the system configuration interface simultaneous, the user who enters into that interface first gets priority and then others will not be able to access it.

8.5.1 Basic Configuration

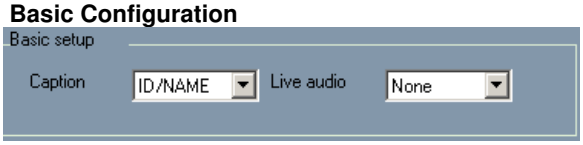


Fig 7.20 Basic setup

1. Caption

There are four options: None, ID, Name and ID/Name to select from.

- 'None'means no title or name.
- 'ID'means camera numbers, i.e.1,2,3 and so on.
- 'Name'means camera names,i.e.Cam1, Cam2 and so on.
- 'ID/Name'means both camera number and camera name,i.e.1/Cam1, 2/Cam2 and so on.

2. Live audio

Supports one channel of microphone audio input signal on the PC motherboard and audio inputs on the card if it has any. Users can choose the video channel to associate with these audio signals.

In the following area in the basic configuration page, users can input the computer user name and password in the related boxes. Then when restarting the computer system, it will access to the system with the user name and password input in these boxes.

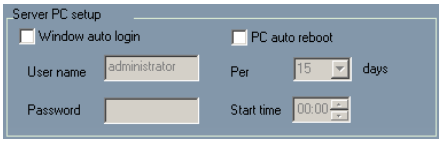
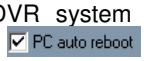


Fig 7.21 Computer System Reboot Setup

As the Windows system may become unstable after a couple of days of continuous operation. It may cause the SuperDVR system to become unstable. The software supports auto-reboot. Select 

and set the interval by day, which will guide the system to reboot automatically according to the setups.

3. Alarm setup

The Alarm setup configuration is show below:

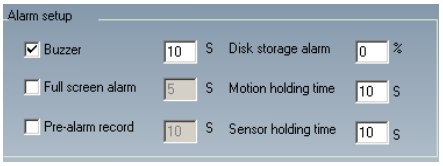


Fig 7.22 Alarm triggering configuration

Option Explanations:

1. Buzzer

Users can select whether to sound the computer buzzer if the alarms have been triggered also select how long the buzzer sounds.

2. Full screen alarm

Users can select whether channel will be full screen when alarm triggered. Set the full screen hold time here

3. Pre-alarm record

Users can select whether to enable alarm pre-recording and also pre-record time

This option is for users to see remote live view.

4. Disk storage alarm

If the Partition's free space is less than the assigned percentage, it will stop recording or recycling, but give alarm tips according to the settings

5. Motion holding time

The continuous recording time after motion stopped

6. Sensor holding time

The continuous recording time after sensor stopped

8.5.2 Camera setup

Click and the camera setup configuration will appear as shown below:

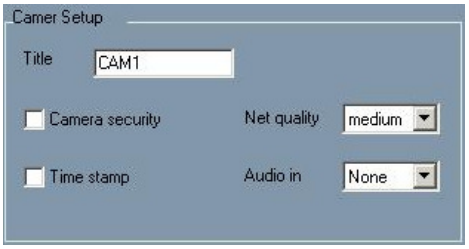


Fig 7.23 Camera setup configuration

1. Title

Channel name. Users can set the channel name from Cam1, Cam2, Cam3 and Cam4.

2. Camera security

Users are divided into two standards: normal user and super admin. By selecting this option, only administrator can see corresponding channels.

3. Time stamp

If selecting the check box, record time will be displayed on the screen when playing back the record.

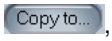
4. Net quality

There are five options to choose from: lowest, lower, medium, higher and highest. The higher the picture quality is, the clearer the picture is, but the more bandwidth it takes to transmit the files.

5. Audio in

If users select the check box, Webcam will record audio along with the video. Otherwise, it will not record audio.

Notice: The default setting is that Audio input1 matches channel1 and Audio input2 matches channel2

By clicking 

, users can copy the setting of this channel to any other selected channel.

8.5.3 Schedule configuration

Click the

icon to enter the Schedule Configuration page as shown below:

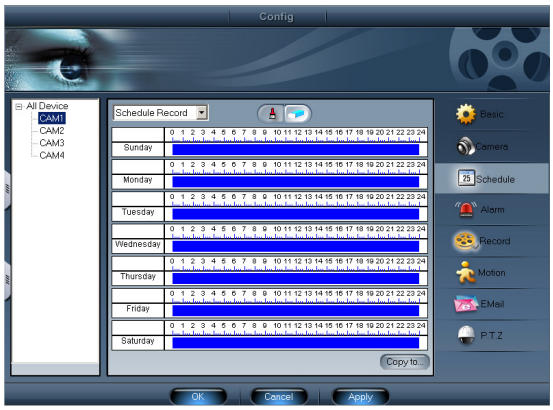
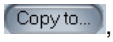


Fig 7.24 Schedule configuration

There are three kinds of recording modes: manual record, schedule record, motion detection/Sensor alarm record. Users can set schedules from Sunday to Monday separately for all of the three recording modes. Sensor alarm recording mode has the highest priority of the options.

When users need to edit the schedule for a channel, select the camera name in the left Camera group first.

Click icon and brush on the weekday schedule to add time; click icon and click on the weekday schedule to delete time.

By clicking 

, users can copy the setting of this channel to any other selected channel.

8.5.4 Alarm configuration

Click icon to enter into alarm configuration as shown below:

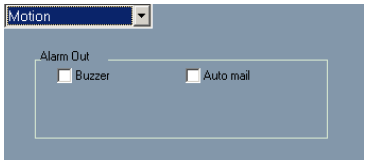


Fig 7.25 Alarm configuration

Users can set the alarm type: Motion and other. There are two alarm out options to choose from: Buzzer and Auto mail.

1. Buzzer

Enable buzzer on board for alarm

2. Auto mail

When alarm is triggered, the system will send an email to users automatically.

By clicking Copy to..., users can copy the setting of this channel to any other selected channel.

8.5.5 Record configuration

Click icon and enter into record configuration interface as shown below:

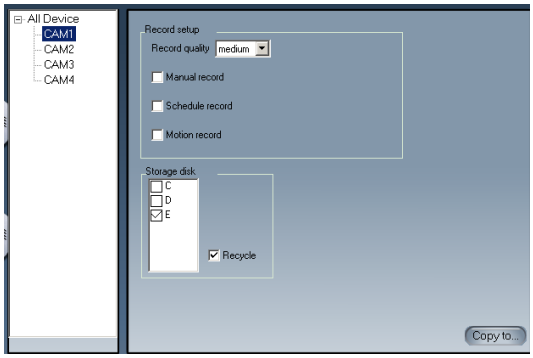


Fig 7.26 Record configuration

1. Record setup

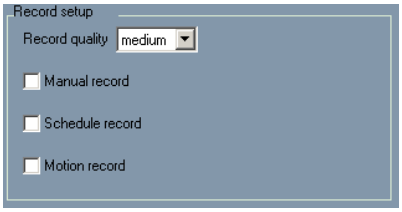


Fig 7.27 Record setup

Users can set three kinds of recording modes:

- Manual record
- Schedule record
- Motion record

Users can use multiple cameras to record, every camera works separately and recorded files are also saved separately.

a. Record quality

There are five quality options to select from: lowest, lower, medium, higher and highest. The higher the record quality is, clearer the recorded image is and the more hard space the recording takes up.

b. Manual record

By selecting this option, the selected camera image will be recorded and saved all the time.

c. Schedule record

By selecting this option, the selected camera image will be recorded according to the times you setup on the schedule.

d. Motion record

By selecting this option, users can set selected channels to record when there is motion detected in front of the camera.

2. Storage disk

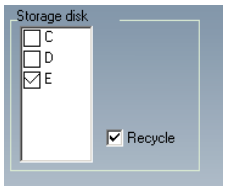
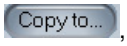


Fig 7.28 Storage disk

Users can store recorded files by selecting storage disk. By checking the 'Recycle'check box, users can setup the software to continue recording after the hard drive is full by recording over the oldest files on the hard drive.

By clicking 

, users can copy the setting of this channel to any other selected channel.

8.5.6 Motion configuration

Click icon to access the motion configuration interface as shown below:

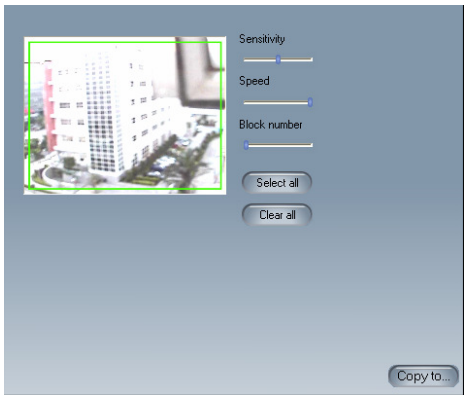


Fig 7.29 Motion configuration

Definition of the setup items:

1. Sensitivity

Users can set motion detection sensitivity here.

2. Speed

Motion detection speed

3. Block number

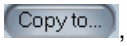
Set grid's number

4. Select all

Select all the areas of the channel as detection area

5. Clear all

Clear all the detection areas and then users can select customized detection areas using mouse curser.

By clicking 

, users can copy the setting of this channel to any other selected channel.

8.5.7 EMAIL Configuration

Click icon to access to Email configuration interface:

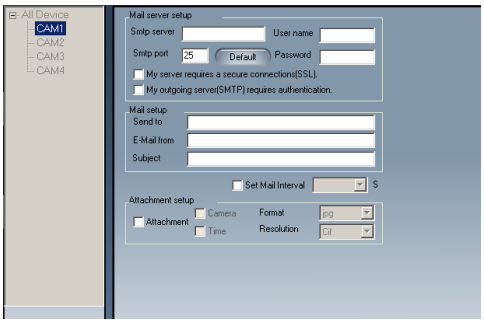


Fig 7.30 Email configuration

1. Mail server setup

Fig 7.31 Mail server setup

In this area, users can set receiver and sender's E-mail SMTP server and address. Note: the address of receiver and sender can be the same.

Relative Definitions:

Smtp server: Sender's SMTP, such as smtp.yahoo.com

User name: Sender's User Name

Smtp port: Mail server's port, the default value of mail server is25.

Password: Sender's Password

Users can select 'My server requires a secure connections' or 'My outgoing server (SMTP) requires authentication'check box according to server mail service policy of mail service supplier.

2. Mail setup

Fig 7.32 Mail setup

Function Definitions:

Send to: Receiver's E-mail Address

E-Mail from: Sender's E-mail Address

Subject: E-mail Subject

Users can select'Set Mail Internal'check box to set email send time, such as 5 seconds, 10 seconds and so on.

3. Attachment setup

Fig 7.33 Attachment setup

Enable 'Attachment', then the image that triggered the alarm will be sent to appointed mailbox when an alarm is triggered.

Function Definitions:

Camera: Channel Name

Time: Display Time

Format: Image Format

Resolution: Cif and QCif

8.5.8 P.T.Z Configuration

Click icon to enter into the P.T.Z configuration as shown below:

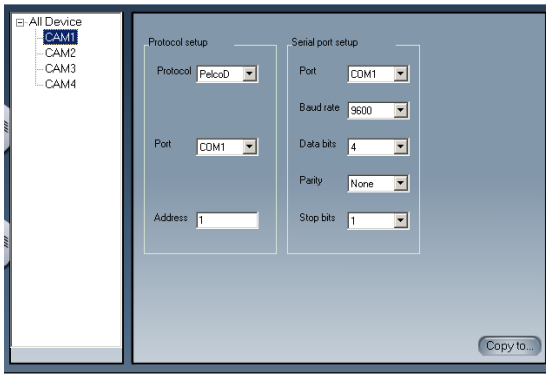


Fig 7.34 P.T.Z Configuration

1. Protocol setup

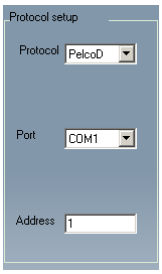


Fig 7.35 P.T.Z Protocol setup

A. Protocol

Communication protocol of P.T.Z device

B. Port

Users can set serial port number

C. Address

Communication address of P.T.Z device (ID number)

2. Serial port setup

Users should first enable the P.T.Z control function of selected camera and select a port number in P.T.Z Protocol Setup (refer to Fig7-30), and then set corresponding parameters in the area below:

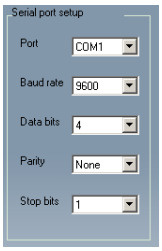


Fig 7.36 P.T.Z Serial port setup

A. Port

Users can set port number

B.Baud rate

Set P.T.Z device Baud rate, default value is 9600, used value must match Baud rate on PTZ control board

C.Data bits

Default value is 8, used value much match Baud rate on PTZ control board.

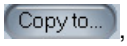
D.Parity

Odd and even parity bit, default Null, used value must match Baud rate on PTZ control board

E.Stop bits

Default value is 1, used value must match Baud rate on PTZ control board

Notice: Users should look into the P.T.Z device and get Baud rate, Protocol and Address first, and then set other values accordingly.

By clicking 

, users can copy the setting of this channel to any other selected channel.

8.6 Mobile Surveillance

8.6.1 Introduction to Mobile Surveillance

This DVR supports mobile surveillance by smart phones and PDAs with Win Mobile Pro or Symbian operating systems that are on 3G networks. Among these, Dopod D600 (WM5) and Dopod S1(WM6) have been tested and fully certified that they worked well with the DVR.

You need to setup the network configuration on the DVR before you can access mobile surveillance **(Please see Chapter 7.1 Remote Live Surveillance)**. The following are the instructions for the two operating systems.

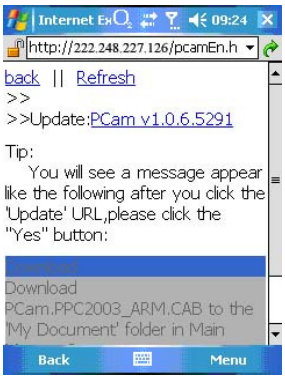
Notice: Mobile devices can only access one channel at a time.

8.7 By Smart Phone with Win Mobile Pro or Classic Operating System

Please use smart phones or PDAs with WinCE version supported by this unit.

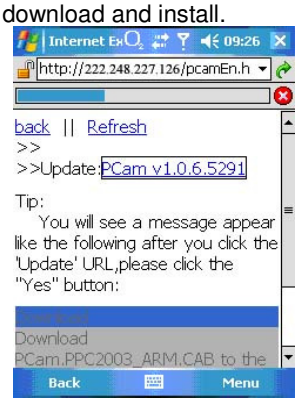
STEP1： First, activate the network access on the mobile phone, and then run “Internet Explorer”.

STEP2： Input the public IP address you need to use to connect as shown below:

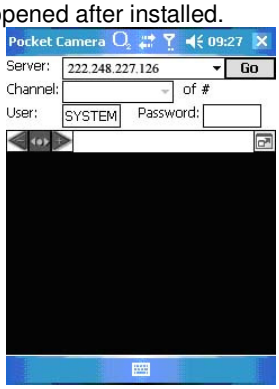


STEP3： Click on the software name. A dialog box will pop up.

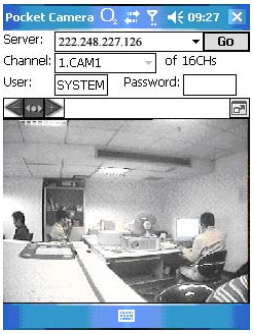
STEP4： Click “Yes” to download and install.



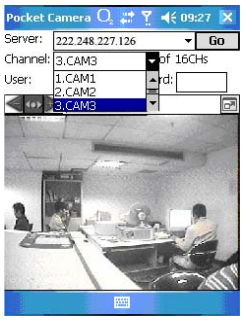
STEP5： PCam will be opened after installed.



STEP6： Input the server's address, ID, and password respectively in the columns of "Server", "User", and "Password". Then click "Go" to login to the DVR. It will show the picture if accessed successfully.



STEP7： Camera 1 is the default display after login. Change the camera in the drop down menu of "Channel".



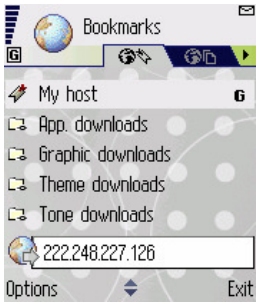
Notice: User name and password here are the same as that used on the PC. The defaults are user name "SYSTEM" with no password.

8.8 By Smart Phone with Symbian Operating System

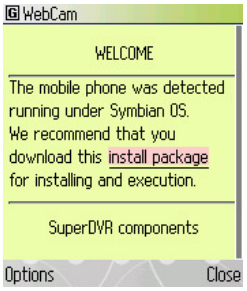
Please use smart phones or PDAs with Symbian version supported by this unit.

STEP1： First, enable the network access on mobile phone, and then run Web browser.

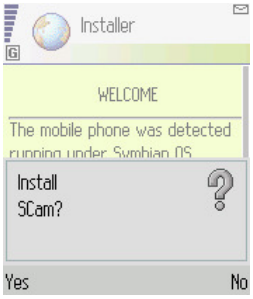
STEP2： Input the DVR server's IP address in a new-built bookmark**)** Click this bookmark to connect with the DVR.



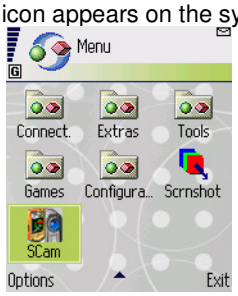
STEP3： A welcome window will pop up with a link to download the software. Click "**install package**" to download.



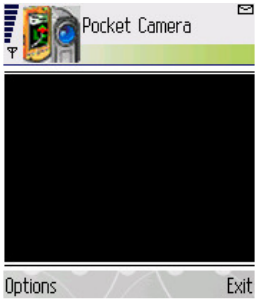
STEP4： The security window will pop up after downloaded and ask if you want to install the package. Click YES to install.



STEP5： A Scam shortcut icon appears on the system menu after finished.

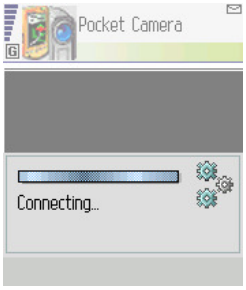


STEP6： Run Scam program.



STEP7： Click Options--->Settings to enter login interface.

STEP8： Input the server's address, ID and password respectively. Then click OK to login to the DVR. **(See 4.1.2 Accessing the DVR over the Internet)**



STEP9： It will show the camera after accessing successfully.

Notice: User name and password here are the same with that used on the PC. The defaults are user name "SYSTEM" with no password

Note: By default, if the mobile phone doesn't do anything for 10 seconds, the back light of phone screen will be shut down in which causes great inconvenience to users wanting to view site images for a long time, so you probably want to change the back light settings to give you longer viewing time.

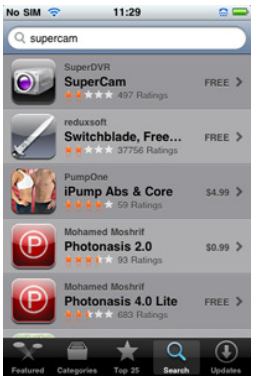
8.9 Accessing From iPhones

At present, the software only supports iPhone os2.2 and above, if phone firmware is lower than this version please upgrade it.

Step1 : Go to the App Store function of iPhone

Step 2: Enable “search”

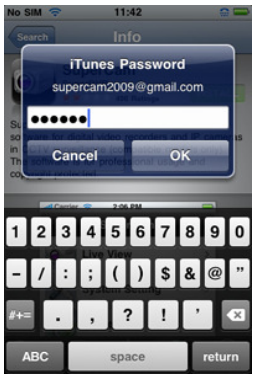
function to search for “SuperCam”, the available programs will be displayed on the top of search box



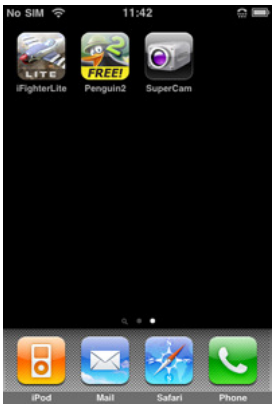
Step 3: Click SuperCam, enter into “introduce” interface and click FREE”, it will change into “INSTALL”

Step 4: Enter into iTunes Store password, click “OK” the below interface will display.

Note: if this is the first time the user is using this feature you will need to enter user ID; if there is no Store account, user need to apply for one.

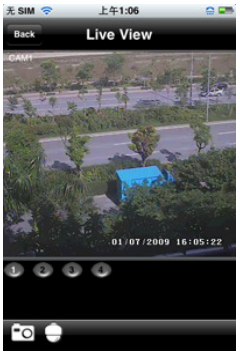


Step 5: Download and install. After installed, SuperCam icon will display. Click this icon, a function interface will appear as shown below.



Step 6: Click “System setting”, to enter into login interface. Enter server’s IP address (or domain name), user’s ID and password. Click Back to save.

Step 7: Click Live View, the default Cam1 picture will be displayed. Click to capture picture. Click to enter PTZ mode.



Step 8: On function interface, click Image View to view the captured picture. Click ◀ or ▶ to switch to next or previous picture. Click 🗑 to delete the current picture.

Iphone help

Pic1 Pic2 Pic3 Pic4

Live View

After successfully installing SuperCam software, Click on System Setting (Pic 1), and then enter Server IP address or Domain, User name and password to log in (Pic 2). If you connect successfully, it will go to Live View of CH1 as default (Pic 3), You can choose other desired channels from channel button underneath. Other functions are:

1. : switch channels
2. : picture snap.
3. : ptz control (if server camera is PTZ Camera only) (pic 4)

PTZ Control buttons:

1 : pan

2 ZOOM : Zoom Zoom in Zoom out

3 FOCUS : Focus. Long Focus Short Focus

4 IRIS : IRIS Lighter Darker

5 : return to live

Image View

Pic 5

Pic 6

1. : Previous picture
2. : Next Picture
3. : The first Picture
4. : The last picture
5. : Delete
6. : Search Pictures, search page as Pic 6

Appendix1 Frequently Asked Questions

Appendix 2.1 Installation

Appendix 2.1.1 Cannot Install the SuperDVR Driver
Possible causes:

- H.264 series capture card has not been installed. Before installing driver, users should install capture card hardware in the PCI slot in the computer case before installing the SuperDVR program.
- H.264 series capture card has not been installed correctly. Please unplug the card and install it again or change to another PCI slot, preferably next to the slot it was originally installed in.
- The card is not compatible with the PC system.

Appendix 2.1.2 Can't find H.264 series Devices in Device Manager
Enter the Device Manager and cannot find corresponding H.264 series Devices, the possible cause may be:

- Windows system error. Restart computer.
- Problem with H.264 series card. Replace the card.
- Install SuperDVR to see if it finds card and installs the driver.

Appendix 2.2 How to Use SuperDVR

Appendix 2.2.1 Meanings of the indicator lights

- Grey- Normal state
- Red - Sensor alarm
- Yellow - Motion detection alarm
- Blue - Video loss
- Light Green - Manual record state
- Dark Green - Schedule record state
-

NOTICE: Users can refer to Figure4-6 to learn more.

Appendix 2.2.2 How do the different record modes work?
Users can set more than one record mode in Record setup (refer to Figure4-5), but actually, there is only one valid record mode for recording.

The priority order of the recording modes is: Sensor Alarm Record > Motion Detection Record > Manual Record > Schedule Record

Appendix 2.2.3 How to set recycling record mode on the system
Select '**Recycle**' in basic configuration, refer to Figure5-1.

Users can select the percent of used disk space to set up "disk shortage alarm." You can input percent manually or choose the selectable options such as, 25%, 50%, and 75% to set up. For example, if selecting 50%, an alarm will warn you when your disk space usage reaches 50%.

TIP
It is recommended that you install SuperDVR onto the partition with your Windows system (normally C:), and save recorded files on a different partition: .

Appendix 2.2.4 How to set auto reboot function
When a Microsoft Windows system runs continuously for a couple of days the system may become unstable; therefore, it is suggested you restart the computer every few of days.

In the basic configuration (refer to Figure5-1), input Windows user name and password (It is not SuperDVR user name and password), and select time interval, then the Windows system will automatically restart according to the set time.

If the Windows system shutdown unexpectedly, i.e. power supply is cut off, when computer reboots, SuperDVR system will automatically restart, and keep the settings you have entered.

TIP
Users do not need to enable auto reboot function, but it's suggested to input the Windows user name and password in the relative area, therefore when the system shuts down unexpectedly, users don't need to input Windows and SuperDVR user names and passwords.

Appendix 2.2.5 How to quickly setup the schedule record function
Press '**Shift**' or '**Ctrl**' key, and draw the cursor in corresponding areas to make schedules for multiple channels.

Appendix 2.2.6 What are the byte rates for different image qualities from highest to normal?
The frame rate is 30 fps, bit rate for the highest image quality is about 1.2MByte/s, and for the lowest image quality is about 50KByte/s.

Appendix 2.2.7 The frame rate seems to be lower than what I set
There is frame loss in image switch therefore the real recording frame rate is relatively lower than the theoretic value.

Appendix 2.2.8 Why can't I select more channels to backup?
Please draw the mouse in the channel selection area, or utilize Shift and Ctrl key for assistance.

Appendix 2.3 How to Use Network Function

Appendix 2.3.1 How to monitor on the client-side

First enable '**Web cameras service**' in basic configuration (refer to Figure5-1).

Input the server Internet address in IE browser on the client-side, and the necessary webcam driver will be downloaded automatically, then users need to install the driver. After accessing the webcam main interface, click '**Login**' and input user name and password to log in the system. (Refer to '**Error! Reference source not found. Error! Reference source not found.** to learn more)

Appendix 2.3.2 Why can't I download the client-side software?

The possible causes:

- The client-side computer is not properly connected to Internet or LAN.
- The server-end has not enabled '**Web Camera Service**'.
- The default Http port is 80. It may be conflict with other Web servers, for example IIS. If so, please change to another port (please see section 7.2)
- Windows XP SP2 will block the OCX download. You should enable 'Internet Option → Security Settings → Download unsigned ActiveX controls' (please see section 7.2.3).

Appendix 2.3.3 Why can't the server be configured at the client-side?

The possible causes:

- It cannot be configured at the client-side, when the server is being configured at the server-end.
- Only the last configuration is valid if different configurations are deployed simultaneously.

Appendix 2.3.4 Why can't I see the images?

The possible causes:

- The VGA card is too outdated or does not have enough Video RAM.
- You need to install a newer version of DirectDraw.
- SuperDVR cannot run on a version of Windows before Win2000.
- Data port or command port is conflicting with other network services (please see section 7.2)
- The user is connected to Internet through LAN, and the network administrator has not enabled corresponding data port or command port.
- The client-side has installed firewall software that may stop video transmission.
- H.264 codec has not been installed properly, please download new version of Webcam (newer version of SuperDVR).
- Slow network speed.

Appendix 2.3.5 What should I do if the Internet speed is quite slow?
The more channels opened, and the slower the video transmission speed, therefore try to use one channel display mode when the network speed is slow.

TIP
There may be some surplus channels that have no video input. Switching off the channels will help to improve transmission speed. (Refer to '5.1 Basic Configuration' about switching on/off channels.)

Appendix 2.3.6 Why can't I start Webcam server or RPB server?
Possible causes:

Other software is using these ports. If so, please change Webcam ports configuration or stop other software.

Appendix 2.3.7 How much hard drive space do the recorded files take up?
To use the table below, find the picture quality setting you are using and multiply the used space figure by the number of cameras you are recording. Divide the result into the amount of hard drive space available and you will get the number of hours you can record on the available hard drive space.

Example using medium quality with 4 cameras with 200GB available:

48.12MB X 4 Cam = 192.48MB/HR, 200GB/192.48 = 1064 HRs = 44 days

Hard Drive space required per hour for each channel

Frame rate	resolution	picture quality	Used Space (MB/hour)
30fps	640*480	highest	93
30fps	640*480	higher	67.44
30fps	640*480	medium	48.12

30fps	640*480	lowest	10.92

Appendix 2.4 Other Questions

Appendix 2.4.1 Why doesn't the computer display work, or why can't I access Window system?
The capture card may not be well installed. Unplug the card and try it again.

NOTICE: Please unplug the power plug of the computer before re-installing the card to avoid damaging the motherboard chip set.

Appendix 2.4.2 Why I can't find the recorded files?
You do not have enough hard drive space available for recording.

Appendix 2.4.3 Why is the screen's display unstable with dithering and water-wave images?
Possible causes:

- Camera does not have enough power
- There is external electromagnetic disturbance, or electrostatic disturbance on camera's BNC connector (It is suggested you connect ground wire to the connector).
- You may need to update the driver for the video card on the system.
- Problem with the video card. Try reinstalling the video card, or changing the video card.

Appendix 2.4.4 Why does it delay playing back, and why is it slow to close and open the driver?
Possible causes:

- Problem with the Windows system. Try rebooting the computer.
- There are too many recorded files or too many fragments on the HDD, therefore it takes time to search for the files, you need delete the files that you don't need, or need to run disk defragmenter.
- Capture card problem.
- Computer hardware system is too outdated (processor too slow, not enough memory, or not enough free space on hard drive).

Appendix 2.4.5 Why can't I play back?
Windows Media Player has been damaged, or decoder has not been installed properly. It is suggested you reinstall the player program or download a codec pack from K-lite (http://www.free-codecs.com/download/K_lite_codec_pack.htm) or www.divx.com.

Computer problem, recorded files have been damaged. It is suggested to fix these files using SuperAVIFix program.

Appendix 2.4.6 Why do I see some gray blocks on time progress bar area when playing back?
Possible causes:

- User has deleted these recorded files.
- SuperDVR has deleted recorded file when recycling hard drive space.
- Recorded files cannot be opened because the recording is on.

Appendix 2.4.7 Why could I see some old recording sections that weren't available for play back?
Possible causes:

- You previously selected disk partitions different from the current partitions.
- Database of recorded log was damaged.
- You have installed SuperDVR on different directories.

Appendix 2.4.8 Precautions on changing system time

- The SuperDVR system provides the retrieving mechanism for video files, which must take the system time as a retrieving reference. To change the computer time after installation will create a high risk of wrong time reference.
- Before SuperDVR is used, it must be confirmed whether the current computer time is correct.
- Deactivate computer auto time updating function of system.
- Make sure the motherboard of the computer is in normal state.

Appendix 2.4.9 If system time must be changed, please do following preparations first

1. If new time is later than current computer time (for example, change 2006/01/01 0 :0 :0 (current system time) to 2007/01/01 0 :0 :0 (target time)), the change can be made directly.
2. If new time is before the current computer time (for example, change 2007/01/01 0 :0 :0 (current system time) to 2006/01/01 0 :0 :0 (target time)), first stop the video recording, backup all video data. Turn off SuperDVR, change computer time, and re-start SuperDVR.

Appendix 2.4.10 How to use REPAIRDB to repair SuperDVR database

Enter the installation directory of SuperDVR.

C:\ProgramFiles\SuperDVR\SuperDVR,open the REPAIRDB.EXE file. The user ID is 'SYSTEM', and no password is needed to enter. After entering, please select database to repair.

Appendix 2.4.11 How to set power options of Microsoft VISTA system

After installing VISTA system, you should enter the Start menu to choose '**Control Panel**'. Select '**System and Maintenance**' link. And select '**Power**' option in '**System and Maintenance**' window. Finally, Select the '**High Performance Change Plan Setting**' option.

Appendix2 Quick Start for Using

Appendix 3.1 Installation Instructions

STEP1 : Insert the PCI card (But do not connect the Camera yet).

STEP2 : Launch Windows.

STEP3 : Windows will come up with Hardware wizard. Just click '**Cancel**'.

STEP4 : Put the installation CD in the drive and open up SuperDVR folder and run the 'Setup' file.

STEP5 : Follow the steps and in WinXP, it will come up with a message saying the program has not passed Windows logo testing, just select 'Continue anyway'.

STEP6 : Reboot computer once installation has completed.
For complete instructions, refer to Chapters 1-7.

Once Booted up, On Desktop there will be a 'SuperDVR' icon.

If this program recognizes the PCI card, program will open OK. Please log in to the program.

Once your program is opened, now connect the Cameras.

Appendix 3.2 Troubleshooting

Appendix3.2.1 When opening the SuperDVR program, it says ' Can't find card '.

Reboot one more time. If you still have the same problem, click 'Start - Program - SuperDVR - Install' and then uninstall the program. Reboot the computer. After reboot, go back to 'Start - Program - SuperDVR - Install'. Now click on '**Install**' to reinstall driver. Then Reboot.

If for some reason still 'Can't find card ', uninstall driver again. Shut down the computer. Move PCI Card to another slot. Reboot it. And click '**Cancel**' when Windows detects it.

Then reinstall driver by going to 'Start - Program - SuperDVR - Install'.

For other settings in the program, please read Chapters 1-7.

Appendix 3.2.2 How to setup the web client to monitor from Internet

1. On Main Computer where DVR Card Installed

STEP1 : Make sure the computer is connected to Internet. DSL or Cable Modem, or T1/T3 line.

STEP2 : Find out your router's public IP address. You can go to www.myipaddress.com from a computer the card is installed in.

STEP3 : Open up the SuperDVR program and go to basic configuration. Checkmark ENABLE Web Camera Service and Remote Play Back Service.

STEP4 : Make Note of Data Port, Command Port and RPB port.

NOTICE: If you are connecting to internet using router, you need to configure the setup of the router and do the port forwarding. Ports that need to be forwarded: 80, 1159, 1160 and 1161. Check your router manual on how to setup that.

2. On Remote Client Computer

STEP1 : Minimum Requirement for the client computer:
- 2.8 GHZ processor or later
-512 MB RAM
- Windows 2000 (SP4 min), Win XP (SP2 min), Vista
- MOST AGP and PCI-E cards with 64MB of Video RAM and full Direct Draw support are supported.
- DirectX 9.0 minimum
- 100 GB free space on HDD

STEP2 : Open up Internet Explorer.
If you are running XP with SP2 on Internet explorer, click 'Tools - Internet Option - Security - Custom Level', and enable '**Download**

unsigned ActiveX controls' (see section 7.2.4).

STEP3 : In the IE textbox of the Internet explorer, input the router's Public IP (see section 7.2.2).

STEP4 : Select '**Live Surveillance**' and click '**OK**' on displayed page.
This will download the Webcam program. And then you can download Remote Playback as well.

STEP5 : On Desktop now you should see 'Webcam' and 'Remote Playback' icon.

STEP6 : Open up Webcam, click '**Key**' symbol icon.
Username: system (Password blank unless you setup a password on the main computer).
Server: this the IP address of the Main Computer.
Data port: 1159 and Command port: 1160.

STEP7 : Click '**OK**'. Now you should be able to view the live video from main computer.

STEP8 : To play back the Video that has been recorded in Main Computer, Select '**Remote Playback**' on displayed page.

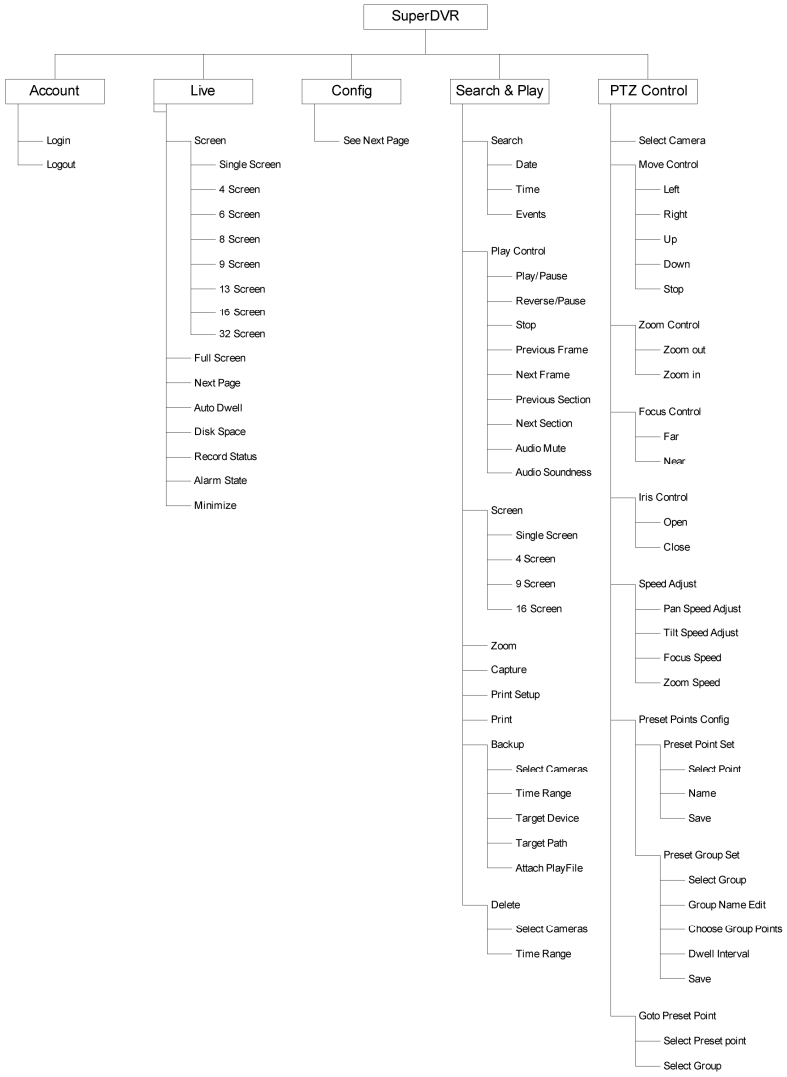
STEP9 : Click on '**Config**'.
Remote server: the IP address of main computer.
IP port: 1161.

STEP10 : Then click '**OK**'.

STEP11 : Click '**Login**'. Now you should be able to play back the recorded video from Main Computer.
For more details information, please read Chapters 1-7.

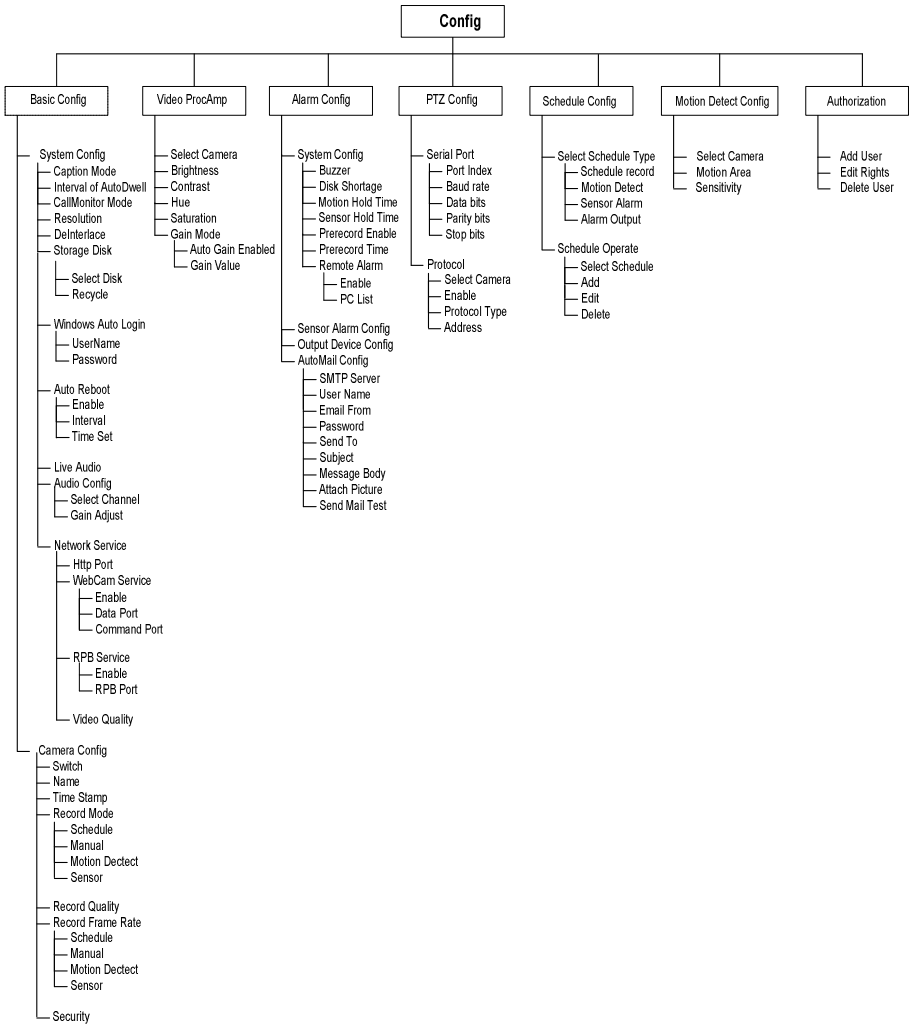
Appendix3 Function Tree

Appendix 4.1 SuperDVR Function Tree



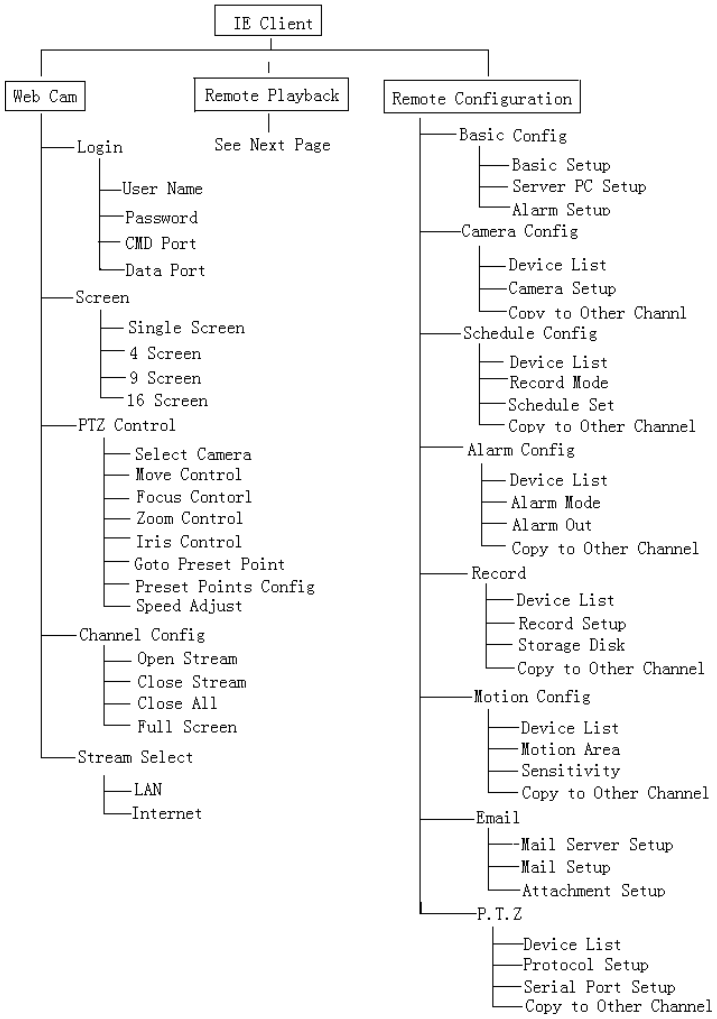
Tree1 SuperDVR Functions

Appendix 4.2 System Configuration Tree



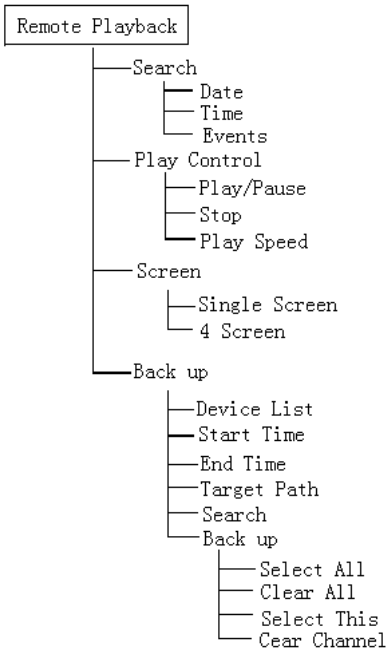
Tree2 System Configuration

Appendix 4.3 IE Client FunctionTree



Tree3 IE Client Function

Appendix 4.4 Remote Playback Function Tree



Tree4 Remote Playback Function

9 Q-See Product Warranty

Thank you for choosing our products.

All of our products users have a conditional free warranty repair service for hardware within 12 months starting from purchase date, and a free exchange service within one month (valid for manufacturing defects). Permanent upgrading service is provided for the software.

Liability Exclusions:

Any product malfunction, abnormalities in operation or damage caused by following reasons are not within the free service scope of our company. Please select payable service.

(1) Equipment damage caused by improper operation

(2) Improper environment and conditions in/on which the equipment operates, e.g., improper power, environment temperature, humidity and lightening strike etc. that cause equipment damage.

(3) Damage caused by acts of nature: earthquake and fire etc.

(4) Equipment damage caused by the maintenance of personnel not authorized by our company.

(5) Product sold over 12 months ago.

In order to provide various services to you, please complete registration procedure after you purchase the product. Cut off or copy User's Information Card and fax or mail it to us after the card is filled in. You can also register the product by going to the www.q-see.com website and clicking on the Register link.

If you have questions:

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Anaheim, CA 92807

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Website:

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Fax:

714-998-3509

Tech Support:

Phone: 877-998-3440 x 539

Email: ts@dpsi-usa.com

Customer Information Card

User's Name	**Mr./Mrs.**
Company Name	
Postal Address	
Postal code	
Phone Number	
E-mail	
Model Number of Product	
Serial Number of Product	
Purchase Date	
Distributor	

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2. We do not accept any responsibility for any harm caused by using our product.

3. The product picture may differ from the actual product, which is only for your reference. The accessories will probably be different according to the different selling areas. For details of accessories, please refer to your local distributor.

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